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# The Institution of Mechanical Engineers.

ESTABLISHED 1847.

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## LIST OF MEMBERS.

FEBRUARY 1901.

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ARTICLES AND BY-LAWS.

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# The Institution of Mechanical Engineers.

ESTABLISHED 1847.

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## LIST OF MEMBERS, &c.

FEBRUARY 1901.

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# The Institution of Mechanical Engineers.

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## PAST-PRESIDENTS.

GEORGE STEPHENSON, 1847-48. (*Deceased* 1848.)

ROBERT STEPHENSON, F.R.S., 1849-53. (*Deceased* 1859.)

SIR WILLIAM FAIRBAIRN, BART., LL.D., F.R.S., 1854-55. (*Deceased* 1874.)

SIR JOSEPH WHITWORTH, BART., D.C.L., LL.D., F.R.S., 1856-57, 1866.  
(*Deceased* 1887.)

JOHN PENN, F.R.S., 1858-59, 1867-68. (*Deceased* 1878.)

JAMES KENNEDY, 1860. (*Deceased* 1886.)

THE RIGHT HON. LORD ARMSTRONG, C.B., D.C.L., LL.D., F.R.S., 1861-62, 1869.  
(*Deceased* 1900.)

ROBERT NAPIER, 1863-65. (*Deceased* 1876.)

JOHN RAMSBOTTOM, 1870-71. (*Deceased* 1897.)

SIR WILLIAM SIEMENS, D.C.L., LL.D., F.R.S., 1872-73. (*Deceased* 1883.)

SIR FREDERICK J. BRAMWELL, BART., D.C.L., LL.D., F.R.S., 1874-75.

THOMAS HAWKSLEY, F.R.S., 1876-77. (*Deceased* 1893.)

JOHN ROBINSON, 1878-79.

EDWARD A. COWPER, 1880-81. (*Deceased* 1893.)

PERCY G. B. WESTMACOTT, 1882-83.

SIR LOWTHIAN BELL, BART., LL.D., F.R.S., 1884.

JEREMIAH HEAD, 1885-86. (*Deceased* 1899.)

SIR EDWARD H. CARBUTT, BART., 1887-88.

CHARLES COCHRANE, 1889. (*Deceased* 1898.)

JOSEPH TOMLINSON, 1890-91. (*Deceased* 1894.)

SIR WILLIAM ANDERSON, K.C.B., D.C.L., F.R.S., 1892-93. (*Deceased* 1898.)

ALEXANDER B. W. KENNEDY, LL.D., F.R.S., 1894-95.

E. WINDSOR RICHARDS, 1896-97.

SAMUEL WAITE JOHNSON, 1898.

SIR WILLIAM H. WHITE, K.C.B., LL.D., D.Sc., F.R.S., 1899-1900.

# The Institution of Mechanical Engineers.

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## OFFICERS.

1901.

### PRESIDENT.

WILLIAM H. MAW,	London.
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### PAST-PRESIDENTS.

SIR LOWTHIAN BELL, BART., LL.D., F.R.S.,	Northallerton.
SIR FREDERICK J. BRAMWELL, BART., D.C.L., LL.D., F.R.S.,	London.
SIR EDWARD H. CARBUTT, BART.,	London.
SAMUEL WAITE JOHNSON,	Derby.
ALEXANDER B. W. KENNEDY, LL.D., F.R.S.,	London.
E. WINDSOR RICHARDS,	Caerleon.
JOHN ROBINSON,	Leek.
PERCY G. B. WESTMACOTT,	Ascot.
SIR WILLIAM H. WHITE, K.C.B., LL.D., D.Sc., F.R.S.,	London.

### VICE-PRESIDENTS.

JOHN A. F. ASPINALL,	Manchester.
BRYAN DONKIN,	London.
ARTHUR KEEN,	Birmingham.
EDWARD P. MARTIN,	Dowlais.
T. HURRY RICHES,	Cardiff.
J. HARTLEY WICKSTEAD,	Leeds.

### MEMBERS OF COUNCIL.

SIR BENJAMIN BAKER, K.C.M.G., LL.D., D.Sc., F.R.S.,	London.
SIR J. WOLFE BARRY, K.C.B., LL.D., F.R.S.,	London.
HENRY CHAPMAN,	London.
HENRY DAVEY,	London.
WILLIAM DEAN,	Swindon.
EDWARD B. ELLINGTON,	London.
H. GRAHAM HARRIS,	London.
HENRY A. IVATT,	Doncaster.
SIR W. THOMAS LEWIS, BART.,	Aberdare.
HENRY D. MARSHALL,	Gainsborough.
THE RIGHT HON. WILLIAM J. PIRRIE, LL.D.,	Belfast.
SAMUEL R. PLATT,	Oldham.
SIR THOMAS RICHARDSON,	Hartlepool.
A. TANNETT-WALKER,	Leeds.
JOHN I. THORNYCROFT, F.R.S.,	London.

### HON. TREASURER.

HARRY LEE MILLAR.

### AUDITOR.

ROBERT A. MCLEAN, F.C.A.

### SECRETARY.

EDGAR WORTHINGTON,

*The Institution of Mechanical Engineers, Storey's Gate, St. James's Park,  
Westminster, S.W.*

Telegraphic address:—Mech, London.

Telephone:—Westminster, 264.



# The Institution of Mechanical Engineers.

ESTABLISHED 1847.

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## LIST OF MEMBERS,

WITH YEAR OF ELECTION.

[*Telegraph Address and Telephone No. appended within brackets.*]

FEBRUARY 1901.

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## HONORARY LIFE MEMBERS.

1890. HIS MOST GRACIOUS MAJESTY KING EDWARD THE SEVENTH.

- 1899. H.R.H. the Duke of Cornwall and York, K.G., K.T., K.P., &c., York House, St. James's Palace, London, S.W.
- 1892. Field Marshal H.R.H. the Duke of Cambridge, K.G., K.T., K.P., G.C.B., G.C.S.I., &c., Gloucester House, Park Lane, London, W.
- 1883. Abel, Sir Frederick Augustus, Bart., G.C.V.O., K.C.B., D.C.L., D.Sc., F.R.S., The Imperial Institute, Imperial Institute Road, London, S.W.; and 2 Whitehall Court, London, S.W. [*Imperial Institute, London.* Kensington 743.]
- 1878. Crawford and Balcarres, The Right Hon. the Earl of, K.T., F.R.S., 2 Cavendish Square, London, W.; Haigh Hall, Wigan; and Observatory, Dunecht, Aberdeen.
- 1889. Eiffel, Gustave, 37 Rue Pasquier, Paris.
- 1883. Kennedy, Professor Alexander Blackie William, LL.D., F.R.S., 17 Victoria Street, Westminster, S.W. [*Kinematic, London.*]
- 1878. Rayleigh, The Right Hon. Lord, F.R.S., 4 Carlton Gardens, London, S.W.; and Terling Place, Witham, Essex.
- 1897. Roberts-Austen, Sir William Chandler, K.C.B., D.C.L., F.R.S., Professor of Metallurgy, Royal College of Science; Chemist of the Royal Mint, Tower Hill, London, E.
- 1888. Rosse, The Right Hon. the Earl of, K.P., D.C.L., LL.D., F.R.S., Birr Castle, Parsonstown, Ireland.
- 1896. Unwin, William Cawthorne, F.R.S., Professor of Engineering, City and Guilds of London Central Institution, Exhibition Road, London, S.W.; and 7 Palace Gate Mansions, Kensington, London, W.

## MEMBERS.

1896. Abady, Jacques, Messrs. Alexander Wright and Co., 81 Page Street, Westminster, S.W. [*Precision, London.* Westminster 337.]

1890. Abbott, Arthur Harold, care of Messrs. Octavius Steel and Co., Calcutta, India.

1878. Abbott, Thomas, Newark Boiler Works, Newark [*Abbott, Newark.*]; and The Square, Retford.

1861. Abel, Charles Denton, Messrs. Abel and Imray, Birkbeck Bank Chambers, Southampton Buildings, London, W.C. [*Patentable, London.* Holborn 109.]

1894. Accles, William Sloane, 25 Victoria Street, Westminster, S.W. [*Niliacus, London.* Westminster 486.]

1892. Acland, Captain Francis Edward Dyke, 76 Cheapside, London, E.C. [*Onager, London.* Bank 5252.]

1897. Adams, Edwin, Messrs. Hulse and Co., Ordsal Works, Regent Bridge, Salford, Manchester.

1876. Adams, Henry, Messrs. Adams and Williams, 60 Queen Victoria Street, London, E.C. [*Viburnum, London.* Bank 6006.]

1881. Adams, William John, 35 Queen Victoria Street, London, E.C. [*Packing, London.* Bank 38.]

1900. Adamson, Charles John, Ecclestone, 8 Radford Road, Lewisham, London, S.E.

1897. Adamson, Daniel, Works Manager, Messrs. Joseph Adamson and Co., Hyde, near Manchester.

1871. Adamson, Joseph, Messrs. Joseph Adamson and Co., Hyde, near Manchester. [*Adamson, Hyde.*]

1889. Addy, George, Waverley Works, Sheffield. [*Milling, Sheffield.* 985.]

1887. Ahmed Pasha, Rear Admiral, Engineer-in-Chief and Head of Technical Inspecting Commission, Imperial Naval Arsenal, Constantinople.

1891. Ahrbecker, Henry Conrad Vandepoel, Mort's Dock and Engineering Co., Balmain, Sydney, New South Wales.

1895. Ahrons, Ernest Leopold, Simon-Carves Bye-Product Coke-Oven Construction and Working Co., 20 Mount Street, Manchester.

1893. Ainley, Henry, Messrs. Platt Brothers and Co., Hartford Iron Works, Oldham.

1900. Aitken, Hugh Wallace, 140 Bath Street, Glasgow. [*Sugarcane, Glasgow.*]

1900. Aiton, John Arthur, Messrs. Clark and Aiton, 25 Laurence Pountney Lane, London, E.C. [*Channeled, London.* Bank 5837.]

1898. Akers, Charles Henry, Hacienda Chocola, Mazatenango, Guatemala.

1901. Akroyd-Stuart, Herbert, Columba Lodge, Cottesloe Beach, Fremantle, Western Australia.

1885. Alderson, George Beeton, Messrs. Allen, Alderson and Co., Alexandria, Egypt; Norland House, Ramleh, Alexandria, Egypt: (or care of Messrs. Stafford Allen and Sons, 7 Cowper Street, Finsbury, London, E.C.)

1881. Alexander, Edward Disney, Milton House, Northampton.

1875. Allan, George, 28 Victoria Street, Westminster, S.W.

1885. Allicard, Harry, Messrs. Easterbrook Allicard and Co., Albert Works, Penistone Road, Sheffield.

1874. Allen, Francis, Messrs. Allen Alderson and Co., Gracechurch Street, Alexandria, Egypt: (or care of Messrs. Stafford Allen and Sons, 7 Cowper Street, Finsbury, London, E.C.)

1891. Allen, Marcus, Union Brass and Iron Works, Great Ancoats Street, and Phoenix Iron Works, Jersey Street, Manchester [*Valves, Manchester. Nat. 60.*]; and The Nest, Knutsford.

1881. Allen, Percy Ruskin, Castner-Kellner Alkali Co., Weston Point, Runcorn; and Ferncliffe, Higher Runcorn, Cheshire.

1900. Allen, Richard William, Messrs. W. H. Allen, Son and Co., Queen's Engineering Works, Bedford. [*Pump, Bedford.*]

1885. Allen, William Henry, Messrs. W. H. Allen Son and Co., York Street Works, Lambeth, London, S.E. [*Pump, London.*]; and Queen's Engineering Works, Bedford. [*Pump, Bedford.*]

1882. Allen, William Milward, Principal Assistant Engineer, Engine Boiler and Employers' Liability Insurance Co., 12 King Street, Manchester.

1899. Alley, Stephen Evans, Manager, Messrs. Alley and MacLellan, Sentinel Works, Polmadie Road, Glasgow. [*Alley, Glasgow. Royal 673.*]

1865. Alleyne, Sir John Gay Newton, Bart., Chevin, Belper.

1884. Alleyne, Reynold Henry Newton, North Wootton, King's Lynn.

1872. Alliott, James Bingham, Messrs. Manlove Alliott and Co., Blooms Grove Works, Ilkeston Road, Nottingham. [*Manloves, Nottingham.*]

1891. Allott, Charles Sneath, 46 Brown Street, Manchester. [*Allotted, Manchester. Nat. 1952.*]

1871. Allport, Howard Aston, Dodworth Grove, Barnsley.

1884. Almond, Harry John, General Manager, La Guaira and Caracas Railway, Caracas, Venezuela: (or care of Messrs. G. and W. Almond, 67 Willow Walk, London, S.E.)

1894. Ambler, Frank, Resident Engineer, Alagoas Railway, Maceio, Brazil.

1885. Amos, Ewart Charles, Mansion House Chambers, 11 Queen Victoria Street, London, E.C.; and Eastdene, Grange Road, Sutton, Surrey. [*Drilling, London.*]

1891. Anderson, Alexander Southerland, Chief Engineer, Ordnance Department, Ordnance Factory, Cawnpore, India.

1880. Anderson, Edward William, Lesney, Warwick Road, Solihull, Birmingham.

1900. Anderson, Eugene Ernest James, Engineer, Corporation Gas Works, Ripon.

1890. Anderson, Herbert William, Fairfield, Broom Road, Teddington, S.O., Middlesex.

1892. Anderson, John Wemyss, Pearl Assurance Buildings, Liverpool. [*Thermo, Liverpool. Nat.* 7461.]

1894. Anderson, Tom Scott, Royal Insurance Buildings, Sheffield; and 8 Southbourne Road, Victoria Park, Sheffield.

1891. Anderson, William, Messrs. Head Wrightson and Co., Teesdale Iron Works, Stockton-on-Tees.

1899. Andrew, George Edward, Engineer, R.N., H.M.S. "Resolution," Gibraltar.

1895. Andrews, Thomas, Messrs. Andrews and Baby, Welsh Wagon Works, East Moors, Cardiff. [*Wagons, Cardiff.* 693.]

1893. Angas, William Moore, Jacksonville, Florida, United States: (or care of G. Douglas Angas, Neswick, Bainton, Hull.)

1885. Anson, Frederick Henry, 15 Dean's Yard, Westminster, S.W.

1899. Appleby, George William, care of Imperial Maritime Customs, Kowloon, Hong Kong, China.

1883. Appleby, Percy Vavasseur, London Steam Crane and Engine Works, Grafton Place, Leicester.

1901. Arakawa, Shinichiro, Consulting Engineer to Japanese Government, 330 Kitano, Osaka, Japan.

1874. Aramburu y Silva, Fernando, Almagro 32, Madrid.

1881. Archbold, Joseph Gibson, Manager, Blyth Dry Dock, Blyth, Northumberland.

1874. Archer, David, 275 Pershore Road, Birmingham.

1882. Armer, James, Messrs. John Birch and Co., 11 Queen Street Place, London, E.C.

1894. Armour, James Glencairn, Queen Insurance Buildings, 13 Castle Street, Liverpool. [*Area, Liverpool.* 2413.]

1866. Armstrong, George, Locomotive Department, Great Western Railway, Stafford Road Works, Wolverhampton.

1876. Armstrong, William, Jun., Mining Engineer, Wingate Colliery, County Durham.

1870. Armstrong, William Irving, Timber Works and Saw Mills, 17 North Bridge Street, Sunderland.

1898. Arnold, Joseph Albert, Messrs. Eastwood, Swingler and Co., Victoria and Railway Iron Works, Derby. [*Swingler, Derby.* 150.]

1897. Arnold, William, Messrs. James Booth and Co., Sheepcote Street Rolling Mills, Birmingham. [*c/o Booth, Birmingham.* 62, 1182, and 2538.]

1894. Arnot, William, 79 West Regent Street, Glasgow. [*Induction, Glasgow.* 5341.]

1887. Arrol, Sir William, M.P., LL.D., Dalmarnock Iron Works, Glasgow.

1887. Arteaga, Alberto de, 1320 Artes, Buenos Aires, Argentine Republic: (or care of M. Raggio-Carneiro, 55 and 56 Bishopsgate Street Within, London, E.C.)

1901. Ash, Alfred Ellis, Works Manager, Vauxhall Iron Works, Wandsworth Road, London, S.W.; and 49 Studley Road, Clapham, London, S.W.

1873. Ashbury, Thomas (*Life Member*), 17 St. Ann's Square, Manchester; and Ash Grove, Victoria Park, Longsight, Manchester. [*Thomas Ashbury, Manchester.*]

1888. Ashby, George, Messrs. N. Wadia and Sons, Cumballa Hill, Bombay, India.

1895. Ashcroft, Andrew George, City and Guilds of London Central Institution, Exhibition Road, London, S.W.; and 1 Gainsborough Road, Bedford Park, London, W.

1890. Ashley, Thomas James, Messrs. McNeill and Co., Samarang, Java

1891. Ashworth, Henry, The Villa, Llangorse, Talgarth, R.S.O., Breconshire.

1890. Askham, John Unwin, Messrs. Askham Brothers and Wilson, Yorkshire Steel Works, Napier Street, Sheffield.

1890. Askham, Philip Unwin, Messrs. Askham Brothers and Wilson, Yorkshire Steel Works, Napier Street, Sheffield.

1881. Aspinall, John Audley Frederick, General Manager, Lancashire and Yorkshire Railway, Hunt's Bank, Manchester; and Gledhill, Mossley Hill Drive, Liverpool.

1891. Asplen, Bernard, Southall: (or care of W. W. Asplen, Foxton Hall, Royston, Cambridgeshire.)

1877. Astbury, James, Smethwick Foundry, near Birmingham.

1890. Aston, John W., Messrs. Belliss and Morcom, Ledsam Street, Birmingham; and Municipal Technical School, Birmingham.

1899. Atherton, Thomas, Dallam Forge, Warrington; and Folly Lane, Warrington.

1889. Atkinson, Alexander, Lahore, Punjab, India.

1890. Atkinson, Edward Turner, London County Council, Spring Gardens, London, S.W.

1900. Atkinson, Frederick Arthur, Messrs. Evans, O'Donnell and Co., 9 Palace Chambers, Westminster, S.W.

1892. Atkinson, James, Benavie, Station Road, Marple, near Stockport.

1897. Atsumi, Sadamoto, 26 Nishino-cho, Unagitani, Osaka, Japan.

1898. Attwood, Jabez, Foster Street, Stourbridge; and Hagley Road, Stourbridge. [*Attwoods, Stourbridge.*]

1892. Ault, Edwin, 47 Victoria Street, Westminster, S.W.

1892. Austin, James Meredith, 11 Emperor's Gate, London, S.W.

1894. Aveline, William Rebotier, Shell Transport and Trading Co., 16 Leadenhall Street, London, E.C.

1882. Aveling, Thomas Lake, Messrs. Aveling and Porter, Rochester. [*Aveling, Rochester.*]

1897. Avery, William Beilby (*Life Member*), Messrs. W. and T. Avery, Soho Foundry and Digbeth, Birmingham; and Oakley Court, Windsor.

1899. Awdry, Walter Llewellyn, 33 Union Street, Birmingham. [1806.]

1897. Back, Arthur Charles Lempière, Devon and Cornwall Ice and Cold Storage Co., Plymouth.

1891. Bagshaw, Walter, Victoria Foundry, Batley.

1899. Baguley, Ernest Edwin, Manager, Messrs. W. G. Bagnall, Castle Engine Works, Stafford.

1888. Bailey, Wilfred Daniel, Messrs. Bailey Walker and Co., Calle Balcarce 302, Buenos Aires, Argentine Republic.

1885. Bailey, Sir William Henry, Albion Works, Salford, Manchester [*Beacon, Salford.*]; and Sale Hall, Cheshire.

1899. Bailey, William Seybourne, 17 Praya Central, Hong Kong, China.

1872. Bailly, Philimond, 282 Rue Royale, Bruxelles, Belgium.

1890. Bain, George, Locomotive Department, Egyptian Government Railways, Cairo, Egypt.

1880. Bain, William Neish, 40 St. Enoch Square, Glasgow; and Collingwood, 7 Aytoun Road, Pollokshields, Glasgow. [*Glacis, Glasgow.*]

1869. Bainbridge, Emerson, Nunnery Colliery Offices, New Haymarket, Sheffield; and 4 Whitehall Court, London, S.W.

1898. Baister, Charles, Locomotive Engineer, North Eastern Railway, Darlington.

1890. Baker, Sir Benjamin, K.C.M.G., LL.D., D.Sc., F.R.S. (*Life Member*), 2 Queen Square Place, Westminster, S.W.

1897. Baker, George Samuel, Messrs. Joseph Baker and Sons, Willesden Junction, London, N.W. [*Mapleleaf, London.* Harlesden 3.]

1896. Baker, William Henry, Superintendent of Works, Residency Post Office, Gwalior, Central India.

1893. Baldwin, Alfred, M.P., Wilden Iron Works, Stourport.

1894. Baldwin, Arthur Hugh, Messrs. Kendall and Gent, Victoria Works, Belle Vue, Manchester. [*Tools, Manchester.* 5147.]

1877. Bale, Manfred Powis, Appold Street, Finsbury, London, E.C.

1897. Balkwill, Alfred John, Works Manager, Messrs. E. Green and Son, Economiser Works, Wakefield.

1898. Bamford, Robert George, Perambore Works, Madras Railway, Madras, India.

1887. Bamlett, Adam Carlisle, Agricultural Engineering Works, Thirsk.

1898. Bancroft, Francis James, Water Engineer, Town Hall, Hull.

1901. Banham, Charles Procter, Table Bay Harbour Works, Cape Town, Cape Colony.

1892. Banister, George Henry, Royal Arsenal, Woolwich.

1899. Banks, George, Assistant Carriage and Wagon Superintendent, Lancashire and Yorkshire Railway, Newton Heath, Manchester; and Montford, Altringham.

1888. Barker, Eric Gordon, Locomotive Superintendent, Wirral Railway, Dock Station, Birkenhead; and Guyse House, Oxton, R.O., near Birkenhead.

1899. Barker, Gerald, 1 Victoria Street, Westminster, S.W.

1896. Barker, Matthew Wilson, Clifton, Hartington Road, Chiswick, London, W.

1885. Barker, Tom Birkett, Westfield, Knowle, Warwickshire.

1899. Barley, Clement Johnson, London Electric Supply Corporation, Stowage Wharf, Deptford, London, S.E.

1880. Barlow-Massicks, Thomas, The Oaks, Millom, Cumberland.

1900. Barman, Harry Drummond Dawson, Airdrie Iron Works, Airdrie. [*Iron, Airdrie.* 6.]

1891. Barnes, John Edward Lloyd, Messrs. Sloan and Lloyd Barnes, 34 Castle Street, Liverpool. [*Technical, Liverpool.* 6080.]

1881. Barnett, John Davis, Assistant Mechanical Superintendent, Grand Trunk Railway, Stratford, Ontario, Canada.

1887. Barningham, James, 41 Victoria Buildings, Victoria Street, Manchester.

1884. Barr, Archibald, D.Sc., Professor of Engineering, The University, Glasgow.

1887. Barringer, Herbert, 88 Bishopsgate Street Within, London, E.C.

1862. Barrow, Joseph, Messrs. Thomas Shanks and Co., Johnstone, near Glasgow. [*Shanks, Johnstone.*]

1871. Barry, Sir John Wolfe, K.C.B., LL.D., F.R.S., 21 Delahay Street, Westminster, S.W. [*Consilium, London.* Westminster 24.]

1883. Bartlett, James Herbert, Middlesbrough, Kentucky, United States.

1899. Bashforth, Andrew, Messrs. Sanderson Brothers and Co., Sheffield.

1887. Bate, Lt.-Colonel Charles McGuire, R.E., Ordnance Committee, Woolwich.

1885. Bateman, Henry, Superintendent, Municipal Fire Brigade and Stores, Rangoon, India.

1896. Bateman, James Thomas, Fair View, Bebington, near Birkenhead.

1891. Bates, Henry, Messrs. Hulse and Co., Ordsal Works, Regent Bridge, Salford, Manchester; and 30 Halliwell Terrace, Trafford Road, Salford, Manchester.

1892. Baxter, Peter Macleod, Messrs. McKie and Baxter, Copland Works, Govan, Glasgow.

1889. Bayford, William James, 34 Westmoreland Road, Bayswater, London, W.

1899. Bayley, George Ridley, Resident Engineer and Manager, Liverpool Hydraulic Power Co., 123 Athol Street, Liverpool, N.

1872. Bayliss, Thomas Richard, Belmont, Northfield, Birmingham.

1891. Baynes, John, 53 Victoria Street, Westminster, S.W.

1899. Beale, Bertram Robert, Managing Director, The Fownes Forge and Engineering Co., 37 Lime Street, London, E.C. [*Ultroneus, London.* Avenue 1874.]

1898. Beard, Arthur Charles, London County Council, Spring Gardens, London, S.W.

1895. Beard, Bernard, 8 Island Road, Garston, near Liverpool.

1887. Beardmore, William, Parkhead Forge and Steel Works, Glasgow.

1893. Beare, Thomas Hudson, F.R.S.E., Professor of Engineering, University College, Gower Street, London, W.C.

1891. Beatty, Hazlitt Michael, Chief Locomotive Superintendent, Cape Government Railways, Cape Town, Cape Colony; and Rosclare Camp Ground, Rondebosch, near Cape Town, Cape Colony.

1890. Beaumont, Roberts, Professor of Textile Industries, Yorkshire College, Leeds.

1880. Beaumont, William Worby, Outer Temple, 222 Strand, London, W.C.  
[*Vibromotor, London.* Gerrard 4160.]

1859. Beck, Edward (*Life Member*), Heddon House, Isleworth.

1873. Beck, William Henry, 115 Cannon Street, London, E.C.

1882. Bedson, Joseph Phillips, Newton House, Hyde, near Manchester.

1875. Beeley, Thomas, Messrs. Thomas Beeley and Son, Hyde Junction Iron Works, Hyde, near Manchester. [*Beeley, Hyde.*]

1899. Beeley, Thomas Carter, Messrs. Thomas Beeley and Son, Hyde Junction Iron Works, Hyde, near Manchester. [*Beeley, Hyde.*]

1898. Beesly, Gerald, Managing Director, Tubes Co., Credenda Works, Bridge Street, Smethwick, Birmingham; and 14 Frederick Road, Edgbaston, Birmingham.

1888. Beldam, Asplan, 93-94 Gracechurch Street, London, E.C.; and Elmwood Manor, Baldock, Herts.

1885. Bell, Charles Lowthian, Clarence Iron Works, Middlesbrough; and Linthorpe, Middlesbrough. [*Bells, Middlesbrough.* 5510.]

1897. Bell, Major Charles Thornhill, R.A., Superintendent, Gun Carriage Factory, Madras, India.

1858. Bell, Sir Lowthian, Bart., LL.D., F.R.S., Clarence Iron Works, Middlesbrough; Rounton Grange, Northallerton; and Reform Club, Pall Mall, London, S.W. [*Sir Lowthian Bell, Middlesbrough.*]

1897. Bellamy, Alfred Rowe, Managing Director, Messrs. J. E. H. Andrew and Co., Reddish, near Stockport.

1868. Belliss, George Edward, Messrs. Belliss and Morcom, Ledsam Street, Birmingham [*Belliss, Birmingham.*]; and The Dell, King's Norton, near Birmingham.

1897. Belliss, John, Messrs. Belliss and Morcom, Ledsam Street, Birmingham.  
[*Belliss, Birmingham.*]

1878. Belsham, Maurice, Messrs. Price and Belsham, 52 Queen Victoria Street, London, E.C.

1895. Benn, Sykes, Messrs. S. S. Stott and Co., Haslingden, near Manchester.  
[*Elevator, Haslingden.* 103.]

1894. Bennett, James William, Messrs. Taylor and Lawson, Engineering Works, Batavia; and Harwood, Branksome Park, Bournemouth.

1900. Bennie, Peter, Agencia de Tharsis, Huelva, Spain.

1895. Bennington, John William, Fleet Engineer, R.N., H.M.S. "Hermione," China.

1895. Bennion, Charles, Messrs. Pearson and Bennion, Union Works, Leicester; and Danes Hill House, Hinckley Road, Leicester. [*Prominent, Leicester.* 103.]

1895. Bennis, Alfred William, Messrs. E. Bennis and Co., 28 Victoria Street, Westminster, S.W.

1894. Bentley, George, Messrs. Bentley and Jackson, Lodge Bank Works, Bury, Lancashire.

1896. Bentley, Wallace, Royal Insurance Buildings, Crossley Street, Halifax.

1895. Berchem, Alphonse Henry Emanuel, Worthington Pumping Engine Co., 153 Queen Victoria Street, London, E.C.

1878. Berrier-Fontaine, Marc, Directeur du Génie Maritime, Adjoint à l'Inspecteur Général, Ministère de la Marine, Paris.

1893. Berry, Henry, Croydon Works, Leeds.

1893. Berry, John Ferrier, care of Messrs. Howard Farrar and Co., P. O. Box 455, Johannesburg, Transvaal, South Africa.

1897. Berthiez, Charles, Messrs. de Fries and Co., Düsseldorf, Germany.

1891. Bertram, David Noble, Messrs. Bertrams, St. Katherine's Works, Sciennes, Edinburgh.

1891. Best, Francis Edward, 1 Swan Walk, Chelsea Embankment, London, S.W.

1899. Beswick, Frederick Arrowsmith, Manchester Steam Users' Association, 9 Mount Street, Manchester.

1893. Betta, Samuel, Locomotive Superintendent, Oxelösund-Fleu-Westmanlands Railway, Eskilstuna, Sweden.

1891. Bevis, Alfred William, Head Organizer for Drawing and Hand and Eye Training to the Commissioners of National Education, Ireland: The Nest, 26 Sydney Avenue, Blackrock, Dublin.

1866. Bevis, Restel Ratsey, Messrs. Laird Brothers, Birkenhead Iron Works, Birkenhead; and Manor Hill, Birkenhead.

1885. Bicknell, Arthur Channing, 42 Pelham Street, South Kensington, London, S.W.

1884. Bika, Léon Joseph, Locomotive Engineer-in-Chief, Belgian State Railway, 29 Rue des Palais, Bruxelles, Belgium.

1898. Bilbie, John, Messrs. Bilbie, Hobson and Co., 80 Queen Victoria Street, London, E.C.

1899. Biles, John Harvard, Professor of Naval Architecture, The University, Glasgow.

1897. Billetop, Torben Christian, Messrs. Henry Watson and Son, High Bridge Works, Newcastle-on-Tyne.

1888. Billinton, Robert John, Locomotive Superintendent, London Brighton and South Coast Railway, Brighton.

1887. Binnie, Sir Alexander Richardson, Engineer, London County Council, Spring Gardens, London, S.W.; and 77 Ladbroke Grove, Notting Hill, London, W.

1891. Bird, George, Messrs. James Bartle and Co., Western Iron Works, Notting Hill, London, W.

1897. Bird, William Hobart, Hearsall House, Coventry.

1880. Birkett, Herbert, 91 Victoria Street, Westminster, S.W.

1896. Black, Peter Blair, 185 Palmerston Buildings, Old Broad Street, London, E.C. [*Blackness, London.*]

1879. Black, William, 1 Lovaine Place, Newcastle-on-Tyne.

1891. Blackburn, Arthur Henry, Fuel Economizer Co., Matteawan, New York, United States.

1891. Blackburn, George William, Messrs. T. Green and Son, Smithfield Iron Works, Leeds.

1890. Blackburn, John, Resident Engineer, Colne Valley Water Works, Bushey, Watford.

1898. Blackstone, Edward Christopher, Managing Director, Messrs. Blackstone and Co., Rutland Engineering Works, Stamford. [*Blackstones, Stamford.*]

1901. Bland, Frederick, Manager, Yorkshire Steel and Engineering Works, Sheffield; and 71 Brunswick Street, Sheffield.

1898. Blane, William, P.O. Box 435, Johannesburg, Transvaal, South Africa.

1895. Blaxter, Augustus Pearce, Jun., Messrs. Barnett and Foster, Niagara Works, Eagle Wharf Road, New North Road, London, N.

1892. Blechynden, John, May Villa, Kungping Road, Shanghai, China.

1867. Bleckly, John James, Bewsey Iron Works, Warrington; and Daresbury Lodge, Altrincham.

1899. Blenkinsop, John Nicholas, Marine Superintendent Engineer, Great Eastern Railway, Parkeston Quay, Harwich.

1882. Blundstone, Samuel Richardson, 3 Ludgate Circus Buildings, London, E.C.

1884. Bocquet, Harry Claude, Leopoldina Railway, Rio de Janeiro, Brazil: (or Llanwye, Hampton Park, Hereford.)

1863. Boeddinghaus, Julius, Electrotechniker, Düsseldorf, Germany.

1898. Boffey, William, Messrs. Green and Co., Church Gresley Potteries, near Burton-on-Trent.

1895. Bond, George Creswell, Newcastle Chambers, Nottingham. [*Bonds, Nottingham.* 441.]

1884. Bone, William Lockhart, Works of the Ant and Bee, West Gorton, Manchester.

1895. Boorman, Joseph Ashworth, Messrs. Greenwood and Batley, Albion Works, Leeds.

1892. Booth, John William, Union Foundry, Rodley, near Leeds.

1890. Booth, Robert, 110 Cannon Street, London, E.C. [*Crocus, London.*]

1891. Boswell, Samuel, Messrs. Galloways, Knott Mill Iron Works, Manchester : and 2 Wentworth Villas, Clarence Road, Longsight, Manchester.

1899. Bottomley, John William, Messrs. Thomas C. Fawcett and Co., White House Engineering Works, Leeds.

1888. Boulding, Sidney, Messrs. Green and Boulding, 105 Bunhill Row, London, E.C. [*Temperature, London.* London Wall 1397.]

1886. Boult, Alfred Julius (*Life Member*), Messrs. Boult, Wade and Kilburn, 111 Hatton Garden, London, E.C. [*Boult, London.* Holborn 180.]

1878. Bourdon, François Edouard, 74 Faubourg du Temple, Paris : (or care of Messrs. Negretti and Zambra, Holborn Viaduct, London, E.C.)

1886. Bourne, Thomas Johnstone, Imperial Chinese Railways, Tientsin, China : (or care of Mrs. Bourne, 16 Park Road, Southborough, Tunbridge Wells.)

1891. Bousfield, John Ebenezer, 4 South Street, Finsbury, London, E.C. [*Invention, London.* Avenue 691.]

1880. Bow, William, Messrs. Bow McLachlan and Co., Thistle Engine Works, Paisley. [*Bow, Paisley.*]

1888. Bowen, Edward (*Life Member*), Locomotive and Carriage Superintendent, Porto Alegre and New Hamburg Railway, Rio Grande do Sol, Brazil : (or care of Benjamin Packham, 18 Upper Wellington Road, Brighton.)

1858. Bower, John Wilkes (*Life Member*), Meredale, Rugby Road, Leamington Spa.

1892. Bowker, Arthur F., Ightham, Kent.

1899. Bowler, Thomas, Works Manager, Messrs. Kitson and Co., Airedale Foundry, Leeds.

1899. Bowman, Harold, Messrs. Stevenson and Co., Canal Foundry, Preston. [*Stevenson, Preston.*]

1900. Boyd, Charles Arthur, Works Manager, English Electrical Manufacturing Co., Preston, Lancashire.

1893. Boyd, James Tennant, Lochgarry Lodge, Lenzie, Glasgow.

1890. Boyd, John White, 59 St. Vincent Street, Glasgow. [*Silent, Glasgow.*]

1882. Bradley, Frederic, Sandhills, Liverpool ; Clensmore Foundry, Kidderminster ; and Thornton Hall, Childer Thornton, near Chester.

1897. Bradley, James William, Town Hall, Wolverhampton.

1896. Bradney, Walter, Billiter Buildings, Billiter Street, London, E.C.

1897. Bradshaw, George Theobald Mathew, Locomotive and Resident Engineer, Ballycastle Railway, Ballymoney, Ireland.

1878. Braithwaite, Charles C., Boreham Wood Works, Elstree, Herts. [*Packing, Boreham Wood.*]

1875. Braithwaite, Richard Charles, Messrs. Braithwaite and Kirk, Crown Bridge Works, Westbromwich [*Braithwaite, Westbromwich.*] ; and 39 Victoria Street, Westminster, S.W.

1900. Bramsdon, William Henry, Fleet Engineer R.N., Montrose, Sussex Terrace, Southsea, Portsmouth.

1854. Bramwell, Sir Frederick Joseph, Bart., D.C.L., LL.D., F.R.S., Messrs. Bramwell and Harris, 5 Great George Street, Westminster, S.W. [*Wellbram, London.* Westminster 60.]

1895. Bratt, Edward Hicks Fraser, Messrs. Bratt and Gibson, Taiping, Perak, Straits Settlements.

1885. Brearley, Benjamin J., Union Plate Glass Works, St. Helens; and Ansdell Road, Rainhill, Lancashire.

1900. Brearley, Frederick Thomas, Union Plate Glass Co., Pocket Nook, St. Helens.

1900. Bremner, David Alexander, 3 Crown Court, Old Broad Street, London, E.C.

1891. Brewster, Edwin Henry George, 12 Dartmouth Street, Queen Anne's Gate, Westminster, S.W.

1890. Brewster, Walter Seckford, Wrentham, Fleet Street, Carlton, near Sydney, New South Wales.

1887. Brier, Henry, Messrs. J. and E. Hall, Dartford; and 1 Miskin Road, Dartford.

1889. Briggs, Charles, care of Robert Briggs, Howden.

1881. Briggs, John Henry, Babcock and Wilcox Boiler Works, Renfrew.

1895. Britten, Thomas Johnson, P.O. Box 494, Johannesburg, Transvaal, South Africa.

1891. Broadbent, William, Messrs. Thomas Broadbent and Sons, Central Iron Works, Huddersfield. [*Broadbent, Huddersfield.* 102.]

1891. Brock, Cameron William Harrison, 30 Fox Hill, Upper Norwood, London, S.E.

1865. Brock, Walter, Messrs. Denny and Co., Engine Works, Dumbarton. [*Lennox, Dumbarton.* 1 and 15.]

1896. Brocklehurst, George, Bridgetown, Barbados, West Indies.

1890. Brodie, John Alexander, City Engineer, Municipal Buildings, Liverpool.

1897. Brodrick, William Holborn, 37 Wellington Street, Hull.

1852. Brogden, Henry (*Life Member*), Hale Lodge, Altrincham, near Manchester.

1890. Brogden, Thomas, Messrs. Appleby and Brogden, Sandside, Scarborough.

1892. Bromiley, William J., Messrs. Dobson and Barlow, Kay Street Machine Works, Bolton.

1892. Bromly, Alfred Hammond, 18 Eldon Street, Moorfields, London, E.C.

1892. Brooke, John Walter, Adrian Iron Works, Lowestoft.

1892. Brooke, Robert Grundy, Messrs. Holden and Brooke, Sirius Works, West Gorton, Manchester. [*Influx, Manchester.*]

1884. Brook-Fox, Frederick George, Messrs. Grindlay and Co., 55 Parliament Street, Westminster, S.W.

1897. Brooks, Samuel Herbert (*Life Member*), Union Iron Works, West Gorton, Manchester.

1880. Brophy, Michael Mary, Messrs. James Slater and Co., 251 High Holborn, London, W.C.

1874. Brotherhood, Peter, 15 and 17 Belvedere Road, Lambeth, London, S.E.; and 15 Hyde Park Gardens, London, W. [*Brotherhood, London.*]

1901. Browett, Thomas, Messrs. Browett, Lindley and Co., 6 Old Queen Street, Westminster, S.W.

1886. Brown, Andrew, 110 Cannon Street, London, E.C.; and Willis Road, Erith, S.O., Kent. [*Brownpost, London.* Bank 647.]

1866. Brown, Andrew Betts, F.R.S.E., Messrs. Brown Brothers and Co., Rosebank Iron Works, Edinburgh.

1891. Brown, Arthur Mogg, Lansdowne, The Avenue, Lincoln.

1885. Brown, Benjamin, Widnes Foundry, Widnes.

1880. Brown, Francis Robert Fountaine, St. James' Club, Montreal, Canada.

1889. Brown, Captain Frederick Alexander William, R.A., Army Ordnance Department, Haulbowline, Cork Harbour, Ireland.

1881. Brown, George William, Trollhättan, Alexandra Road, Reading. [251.]

1898. Brown, Harry, Department of Mines, Sydney, New South Wales.

1892. Brown, James Fiddes, Works Superintendent, Charing Cross and Strand Electricity Supply Corporation, 15 Maiden Lane, Strand, London, W.C.

1884. Brown, Oswald, 32 Victoria Street, Westminster, S.W. [*Acqua, London.*]

1888. Brown, William, Messrs. W. Simons and Co., London Works, Renfrew.

1892. Brown, William, Messrs. Siemens Brothers and Co., Woolwich.

1874. Browne, Tomyns Reginald, Deputy Locomotive Superintendent, East Indian Railway, Howrah, Bengal, India : (or care of Messrs. W. Watson and Co., 7 Waterloo Place, Pall Mall, London, S.W.)

1874. Bruce, Sir George Barclay, 3 Victoria Street, Westminster, S.W.

1899. Bruce, Graham Stewart, Deputy Locomotive and Carriage Superintendent, South Indian Railway, Negapatam, India.

1889. Bruce, Robert, 77 Billiter Buildings, London, E.C. [*Tangential, London.*]

1873. Brunel, Henry Marc, 21 Delahay Street, Westminster, S.W. [Westminster 24.]

1892. Brunlees, John, 12 Victoria Street, Westminster, S.W. [Westminster 245.]

1887. Brunton, Philip George, Inspector of Ironwork, Public Works Department, Sydney, New South Wales: (or care of J. D. Brunton, 19 Great George Street, Westminster, S.W.)

1884. Bryan, William B., Engineer, East London Water Works, Lea Bridge, Clapton, London, N.E.

1899. Buchanan, James, Messrs. James Buchanan and Son, Caledonia Foundry and Engine Works, Brasenose Road, Liverpool. [*Buchanan, Liverpool.* Bootle 132.]

1892. Buckley, John T., 36 Cleveland Road, Lytham, R.S.O., Lancashire.

1895. Buckley, Victor Emanuel, Managing Director, Lodz Sewing Thread Manufacturing Co., Lodz, Russian Poland.

1887. Buckton, Walter, 27 Ladbroke Square, London, W.

1896. Buckwell, George William, Board of Trade Offices, Sunderland.

1878. Buddicom, Harry William, Penbedw, Nannerch, near Mold.

1886. Budenberg, Christian Frederick, Messrs. Schäffer and Budenberg Whitworth Street, London Road, Manchester; and Somerville, Arkwright Road, Marple, Stockport. [*Manometer, Manchester.* 899.]

1882. Budge, Enrique, Engineer-in-Chief, Harbour Works, Valparaiso, Chile : (or care of Messrs. Rose-Innes Cox and Co., 4 Fenchurch Avenue London, E.C.)

1881. Bulkley, Henry Wheeler, N.Y. Times Building, 41 Park Row, New York, United States.

1884. Bullock, Joseph Howell, Fairfield, Bescot Road, Walsall.

1882. Bulmer, John, Spring Garden Engineering Works, Pitt Street, Newcastle-on-Tyne.

1892. Bulwer, Ernest Henry Earle, Manager, Hagerup-Doughty Ice Factory and Cold Storage Co., Robinson Street, Grimsby.

1891. Bumsted, Francis Dixon, Cannock Chase Foundry and Engine Works, Hednesford, near Stafford.

1884. Bunt, Thomas, Superintendent Engineer, Kiangnan Arsenal, Shanghai, China : (or care of R. Pearce, Lanarth House, Holders Hill, Hendon, London, N.W.)

1899. Burcham, Richard Edward, Manchester Steam Users' Association, 9 Mount Street, Manchester; and Richmond Terrace, Vine Street, Openshaw, Manchester.

1885. Burder, Walter Chapman, Messrs. Messenger and Co., Loughborough.

1891. Burgess, Francis Chassereau Boughey, Locomotive and Carriage Superintendent, Lagos Government Railway, Lagos, West Coast Africa : (or care of Messrs. William Watson and Co., 7 Waterloo Place, London, S.W.)

1894. Burke, Michael James, Locomotive and Carriage Superintendent, Morvi Railway, Morvi, India.

1881. Burn, Robert Scott, 11 Albert Terrace, Musselburgh, near Edinburgh.

1893. Burnes, Thomas, R.N., Rosedale, 3 Lanercost Road, Tulse Hill, London, S.W.

1878. Burnett, Robert Harvey, Messrs. Beyer Peacock and Co., Gorton Foundry, Manchester.

1878. Burrell, Charles, Jun., Messrs. Charles Burrell and Sons, St. Nicholas Works, Thetford. [*Burrell, Thetford.*]

1887. Burstal, Edward Kynaston, Messrs. Stevenson and Burstal, 38 Parliament Street, Westminster, S.W.

1896. Burstall, Frederic William, Professor of Engineering, The University, Birmingham.

1890. Burstall, Henry Robert John, Messrs. Burstall and Monkhouse, 14 Old Queen Street, Westminster, S.W. [*Advisedly, London.*]

1898. Burt, George (*Life Member*), Messrs. John Mowlem and Co., 19 Grosvenor Road, London, S.W.

1900. Bushell, Edward Hunter, 68 Orange Court, Liverpool.

1884. Butcher, Joseph John, P. O. Box 132, Thompsonville, Connecticut, United States.

1882. Butler, Edmund, Kirkstall Forge, near Leeds. [*Forge, Kirkstall.*]

1892. Butler, Henry William, Manager, Albert Hill Foundry, Darlington.

1884. Butler, Hugh Myddleton, Kirkstall Forge, near Leeds.

1891. Butler, James, Victoria Iron Works, Halifax; and Longfield, Halifax.

1891. Butter, Henry Joseph, Messrs. Tannett Walker and Co., Leeds; and Claremont, Burrage Road, Plumstead.

1894. Butterworth, Joseph, Messrs. Lancaster and Tonge, Pendleton, Manchester; and Thorn Cottage, Pendlebury, Manchester.

1899. Byrne, John Joseph, Barrow Bridge Iron Works, Athy, Ireland.

1887. Caiger, Emery John, Messrs. E. J. Caiger and Co., 92 Billiter Buildings, Billiter Street, London, E.C. [*Caiger, London.*]

1886. Cairnes, Frederick Evelyn, Killester House, Raheny, S. O., Co. Dublin.

1900. Calastremé, John Carlos, Calle Maipu 129, Buenos Aires, Argentine Republic.

1889. Callan, William, River Plate Fresh Meat Co., 2 Coleman Street, London, E.C.

1900. Calthrop, Everard Richard, 3 Crosby Square, Bishopsgate Street, London, E.C. [*Raillerais, London.*]

1886. Cambridge, Henry, Stuart Chambers, Mount Stuart Square, Cardiff.

1898. Cameron, John, Taff Vale Railway, Cardiff.

1893. Campbell, Andrew Chisholm, Messrs. James Campbell and Sons, Vulcan Engine Works, William Moult Street, Liverpool.

1877. Campbell, Angus, Logie, Mussoorie, N. W. Provinces, India.

1880. Campbell, Daniel, Messrs. Campbell, Macmaster and Co., 11 and 12 Clement's Lane, Lombard Street, London, E.C. [*Duke, London.* Avenue 2011.]; and 18 Algiers Road, Lewisham, London, S.E.

1898. Campbell, Hugh, Campbell Gas Engine Co., Kingston, Halifax. [*Camgas, Halifax.* 92.]

1869. Campbell, James, Hunslet Engine Works, Leeds. [*Engineco, Leeds.*]

1893. Campbell, James Alexander Miller, Messrs. James Campbell and Sons, Vulcan Engine Works, William Moult Street, Liverpool.

1882. Campbell, John, Messrs. R. W. Deacon and Co., Kalimaas Works, Soerabaya, Java.

1899. Campbell, Robert Malcolm, City and Suburban Electric Carriage Co.,  
157A Manor Street, Clapham, London, S.W.

1892. Campbell, William Walker, Messrs. Campbell and Calderwood, Soho  
Engine Works, Paisley. [*Soho, Paisley.* 162.]

1885. Capito, Charles Alfred Adolph, 5 Eardley Crescent, Earl's Court, London,  
S.W.

1892. Capper, David Sing, Professor of Mechanical Engineering, King's College,  
Strand, London, W.C.

1898. Capron, Athol John, Green Oak, Totley, Sheffield.

1860. Carbutt, Sir Edward Hamer, Bart., 19 Hyde Park Gardens, London, W.;  
and Nanhurst, Cranleigh, Guildford.

1878. Cardew, Cornelius Edward, Locomotive and Carriage Superintendent,  
Burma Railways Co., Insein, Burma.

1875. Cardozo, Francisco Corrêa de Mesquita (*Life Member*), Messrs. Cardozo  
and Irmão, Pernambuco Engine Works, Pernambuco, Brazil : (or care of  
Messrs. Fry Miers and Co., 8 Great Winchester Street, London, E.C.)

1892. Carnegie, David, Royal Laboratory, Royal Arsenal, Woolwich.

1899. Carnt, Edwin Charles, Messrs. J. Samuel White and Co., Cowes, Isle of  
Wight. [*White, East Cowes.* 3 A.]

1895. Carr, Robert Alfred, Engineer and Locomotive Superintendent, Burry  
Port and Gwendraeth Valley Railway, Burry Port, R.S.O.,  
Carmarthenshire.

1892. Carrack, Charles, 36 Melton Road, West Bridgford, Nottingham.

1884. Carrick, Henry, Messrs. Carrick and Wardale, Redheugh Engine  
Works, Gateshead; and Hall Garth, Coatham Mundeville, Darlington.  
[*Wardale, Gateshead.*]

1885. Carter, Herbert Fuller, Babcock and Wilcox Co., Apartado Postal 419,  
Mexico D.F., Mexico : (or care of H. Maynard Carter, 79 Wool  
Exchange, Coleman Street, London, E.C.)

1877. Carter, William, General Manager, The Hydraulic Engineering Company,  
Chester.

1888. Castle, Frank, Royal College of Science, Exhibition Road, South  
Kensington, London, S.W.

1891. Caswell, Samuel John, care of Messrs. A. C. Sim and Co., 18 Concession,  
Kobe, Japan.

1892. Causer, William George, Brighton Villa, Handsworth, R.O., Birmingham.

1883. Cawley, George, 29 Great George Street, Westminster, S.W.

1892. Chadwick, Osbert, C. M. G., Crown Agents' Department, Colonial Office,  
Downing Street, London, S.W.; and 11 Airlie Gardens, Kensington,  
London, W.

1894. Chaffey, George, 226 Spring Street, Los Angeles, California, United States.

1876. Challen, Stephen William, Messrs. Taylor and Challen, Derwent Foundry,  
60 and 62 Constitution Hill, Birmingham. [*Derwent, Birmingham.*]

1880. Challen, Walter Bernard, Messrs. Taylor and Challen, Derwent Foundry,  
60 and 62 Constitution Hill, Birmingham.

1892. Chalmers, George, St. John del Rey Mining Co., Finsbury House,  
Blomfield Street, London, E.C.

1886. Chalmers, John Reid, 18 Hemingford Road, Barnsbury, London, N.

1901. Chamberlain, John, Admiralty, 21 Northumberland Avenue, Charing  
Cross, London, W.C. [Former Member 1884-1894.]

1897. Chambers, Edward John, Managing Director, Messrs. Bullers, Tipton.

1896. Chambers, Robert Martin, Messrs. Chambers and Co., Cuba Street, Belfast.

1900. Chambers, Thomas Hall Winsley, Messrs. Gjers, Mills and Co., Ayresome  
Iron Works, Middlesbrough.

1890. Chandler, Noel, Cannock Chase Foundry and Engine Works, Hednesford,  
near Stafford.

1888. Chapman, Arthur, 7 Palmerston Mansions, Queen's Club Gardens, London,  
W.: (or Hulne Park, Alnwick.)

1866. Chapman, Henry, 69 Victoria Street, Westminster, S.W. [*Tubalcain.*  
*London.*]; and 10 Rue Laffitte, Paris.

1878. Chapman, James Gregson, Messrs. Fawcett Preston and Co., Phoenix  
Foundry, Liverpool; and 20 Bucklersbury, London, E.C. [*Fawcett.*  
*London.*]

1887. Chapman, Joseph Crawhall, 70 Chancery Lane, London, W.C. and St.  
Mildred's, Lovelace Gardens, Surbiton.

1898. Chapman, Leonard, Sail Street, Lambeth, London, S.E.; and Runnymede,  
Hampton Wick, London, S.W.

1893. Charlesworth, Sheard, Messrs. S. Charlesworth and Co., Richmond Hill  
Iron Works, Oldham. [*Charlesworth, Engineers, Oldham.* 63.]

1885. Charnock, George Frederick, Engineering Department, Technical College,  
Bradford.

1877. Chater, John, Messrs. Henry Pooley and Son, 89 Fleet Street, London,  
E.C.

1890. Chater, John Richard, Messrs. Henry Pooley and Son, 28 Mosley Street,  
Newcastle-on-Tyne.

1885. Chatfeild Clarke, Leslie, 47 Queensborough Terrace, Hyde Park,  
London, W.

1891. Chatterton, Alfred, Professor of Engineering, College of Engineering,  
Madras, India.

1887. Chatwin, James, Victoria Works, Great Tindal Street, Ladywood,  
Birmingham.

1867. Chatwood, Samuel, Lancashire Safe and Lock Works, Bolton; and  
High Lawn, Broad Oak Park, Worsley, near Manchester.

1898. Chatwood, Samuel Rawsthorne, Manager, Lancashire Safe and Lock Works, Bolton. [*Chatwoods, Bolton.* 333.]

1873. Cheesman, William Talbot, Hartlepool Rope Works, Hartlepool.

1897. Childe, Henry Slade, Messrs. Childe and Rowand, Wakefield. [*Childe, Wakefield.* 33.]

1895. Chittenden, Edmund Barrow, West Malling, Kent.

1899. Christie, Andrew, Mort's Dock and Engineering Co., Mort's Bay, Sydney, New South Wales.

1880. Churchward, George Dundas, Metropolitan Railway Carriage and Wagon Co., Saltley Works, Birmingham.

1894. Churchward, George Jackson, Great Western Railway Carriage Works, Swindon.

1896. Claremont, Ernest Alexander, Messrs. F. H. Royce and Co., Cooke Street, Hulme, Manchester. [*Switch, Manchester.* 772.]

1891. Clark, Augustus, Bowman's Heirs, Pernambuco, Brazil.

1867. Clark, George, Southwick Engine Works, near Sunderland.

1896. Clark, George, Jun., Southwick Engine Works, near Sunderland.

1899. Clark, George, Works Manager, Messrs. Bryan Donkin and Clench, 55 Southwark Park Road, Bermondsey, London, S.E.; and Elm Tree Villa, Spital, Chesterfield.

1899. Clark, Henry, Messrs. Head, Wrightson and Co., Stockton-on-Tees.

1889. Clark, Thomas Alexander, Superintendent of Workshops, George Heriot's Hospital School, Edinburgh.

1896. Clark, Thomas Forster, Locomotive Superintendent, Metropolitan Railway, Neasden, London, N.W.

1893. Clarke, Edward Fuhrmann, Curzon Chambers, Paradise Street, Birmingham; and 59 Stanmore Road, Edgbaston, Birmingham.

1894. Clarkson, Charles, Milners' Safe Co., Phoenix Safe Works, Liverpool.

1900. Clarkson, Edward Joseph, Clyde Engineering Co., Granville, New South Wales.

1898. Clarkson, James, Messrs. J. and P. Coats, 89 Wellington Street, Glasgow.

1891. Clarkson, Thomas, Clarkson and Capel Steam Car Syndicate, Deverell Street, London, S.E. [*Supersede, London.* Hop 141.]

1892. Clay, Charles Butler, National Telephone Co., Telephone House, Victoria Embankment, London, E.C.

1882. Clayton, William Wikeley, Messrs. Hudswell Clarke and Co., Railway Foundry, Jack Lane, Leeds. [*Loco, Leeds.* Central 504.]

1890. Cleaver, Arthur, Engineer, Nottingham Laundry Co., Sherwood, near Nottingham; and Pelham House, Sherwood Rise, Nottingham.

1890. Cleland, William, Sheffield Testing Works, Blonk Street, Sheffield.

1873. Clench, Frederick, Messrs. Bryan Donkin and Clench, Lincoln Works, Chesterfield.

1897. Clifford, Charles, Chief Mechanical Engineer, Great Northern Railway of Ireland, Dundalk.

1885. Clifton, George Bellamy, Great Western Railway Electric Light Works, 150 Westbourne Terrace, Paddington, London, W.

1885. Close, John, York Engineering Works, Leeman Road, York.

1885. Clutterbuck, Herbert, Engineers' Department, London County Council, Spring Gardens, London, S.W.

1881. Cochrane, Brodie, Greencroft Park, Lanchester, Durham.

1887. Cochrane, George, Resident Engineer, London Hydraulic Power Works, 46 Holland Street, Blackfriars Road, London, S.E.

1885. Cochrane, John, Grahamston Foundry and Engine Works, Barrhead, near Glasgow. [*Cochrane, Barrhead.*]

1869. Cochrane, Joseph Bramah, Woodside Iron Works, near Dudley.

1868. Cochrane, William, Oakfield House, Gosforth, Newcastle-on-Tyne.

1864. Coddington, Sir William, Bart., M.P., Ordnance Cotton Mill, Blackburn; and Wycollar, Blackburn.

1889. Coey, Robert, Locomotive Engineer, Great Southern and Western Railway, Inchicore Works, near Dublin.

1898. Coker, Ernest George, McGill University, Montreal, Canada.

1889. Colam, William Newby, 57 Henderson Row, Edinburgh. [*Colam, Cable, Edinburgh.*]

1892. Cole, Henry Aylwin Bevan, 79½ Gracechurch Street, London, E.C. [*Carbuncle, London.*]

1878. Coles, Henry James, London Crane Works, Derby.

1900. Collinson, Arthur, Locomotive Department, North Eastern Railway, Gateshead.

1894. Collis, Alfred Edward, Lincoln Science School, Monk's Road, Lincoln.

1884. Coltman, John Charles, Messrs. Huram Coltman and Son, Engineering Works, Meadow Lane, Loughborough.

1878. Colyer, Frederick, 14 Victoria Street, Westminster, S.W.

1888. Combe, Abram, Messrs. Combe Barbour and Combe, Falls Foundry, Belfast.

1896. Conaty, George, Engineer, Birmingham and Midland Tramways, Birmingham.

1888. Constantine, Ezekiel Grayson, 17 St. Ann's Square, Manchester. [*Constant, Manchester.*]

1886. Conyers, Sidney Ward, Railway Construction Branch, Public Works Department, Sydney, New South Wales.

1874. Conyers, William, New Zealand Chambers, 483 Collins Street, Melbourne, Victoria.

1896. Cook, Charles, Messrs. Barry, Henry and Co., 64 Mark Lane, London, E.C.

1888. Cook, John Joseph, Messrs. Robinson Cooks and Co., Atlas Foundry, St. Helens, Lancashire.

1892. Cooke, Rupert Thomas, 889 Ashton Old Road, Manchester.

1877. Cooper, Arthur, North Eastern Steel Co., Royal Exchange, Middlesbrough.

1883. Cooper, Charles Friend, 6 Wardrobe Place, Doctors' Commons, London, E.C.

1877. Cooper, George, Pencliffe, Alleyne Road, West Dulwich, London, S.E.

1898. Cooper, Henry, Messrs. Vickers, Sons and Maxim, River Don Works, Sheffield.

1891. Cooper, Myles, 36 Victoria Street, Manchester.

1874. Cooper, William, Neptune Engine Works, Hull. [*Neptune, Hull.*]

1900. Cooper, William, 1 Bonnington Terrace, Edinburgh.

1881. Coote, Arthur, Messrs. R. and W. Hawthorn Leslie and Co., Hebburn, Newcastle-on-Tyne.

1900. Cope, Harry Charles, Messrs. Summerscales and Sons, Phoenix Foundry, Keighley.

1885. Coppée, Evence, 223 Avenue Louise, Bruxelles, Belgium.

1899. Copperthwaite, Ralph Atkinson, Thickley Lodge, New Shildon, R.S.O., Co. Durham.

1892. Corin, Philip Burne, Messrs. J. M. B. Corin and Son, Anchor Foundry, Penzance.

1895. Corner, John Frederick, Boiler Insurance and Steam Power Co., 67 King Street, Manchester.

1895. Cornish, Edwin, Fleet Engineer, R.N., H.M.S. "Venerable," Chatham.

1848. Corry, Edward (*Life Member*), 9 New Broad Street, London, E.C.

1881. Cosser, Thomas, McLeod Road Iron Works, Karachi, India : (or care of Messrs. Ironside Gyles and Co., 1 Gresham Buildings, Guildhall, London, E.C.)

1900. Cotton, Charles Cathrow Carne, Messrs. Yarrow and Co., Isle of Dogs, Poplar, London, E.

1896. Cottrell, Stephen Butler, Pacific Buildings, 31 James Street, Liverpool. [*Motor, Liverpool. Central 5460.*]

1894. Cottrill, John Ormerod, Bee Hive Works, Bolton.

1887. Coulman, John, Assistant Locomotive Superintendent, Hull and Barnsley Railway, Spring Head Works, Hull.

1895. Couper, Sinclair, Messrs. Lindsay Burnet and Co., Moore Park Boiler Works, Govan, Glasgow. [*Burnet, Glasgow. South Side 1513.*]

1878. Courtney, Frank Stuart, Messrs. Easton Anderson and Goolden, Broad Sanctuary Chambers, Broad Sanctuary, Westminster, S.W.; and 38 Croxton Road, Dulwich, London, S.E.

1899. Coveney, William Charles, Superintendent Engineer, Municipal Pumping Station, Singapore, Straits Settlements.

1875. Coward, Edward, Messrs. Melland and Coward, Cotton Mills and Bleach Works, Heaton Mersey, near Manchester; and Heatherlea, Bowdon, Altrincham.

1896. Cowdell, Henry Charles, Cradley Boiler Works, Cradley Heath, S.O., Staffordshire. [*Boiler, Cradley Heath.*]

1893. Cowell, John Ray, P.O. Box 2141, Johannesburg, Transvaal, South Africa.

1875. Cowen, Edward Samuel, Messrs. G. R. Cowen and Co., Beck Works, Brook Street, Nottingham; and 9 The Ropewalk, Nottingham. [*Cowen, Nottingham.* 87.]

1898. Cowen, George Roberts, 9 The Ropewalk, Nottingham. (Former Member 1870-1888.)

1898. Cowens, William Edward, Works Manager, Messrs. John Abbot and Co., Park Works, Gateshead.

1880. Cowper, Charles Edward, Redcot, The Marina, Deal.

1892. Cowper-Coles, Sherard Osborn, Grosvenor Mansions, Victoria Street, Westminster, S.W. [*Zincking, London.*]

1888. Cox, Herbert Henry, 17 Wodehouse Terrace, Falmouth.

1897. Cox, Job, Birmingham Corporation Baths and Parks Departments, Kent Street, Birmingham. [994.]

1896. Craig, Alexander, Messrs. A. and G. Craig, Queen's Quay and Boating Club Road, Londonderry.

1899. Craven, John Alfred, Darnall Railway Carriage, Wagon, and Wheel Works, Sheffield.

1866. Craven, William, Messrs. Craven Brothers, Vauxhall Iron Works, Osborne Street, Manchester. [*Vauxhall, Manchester.* 659.]

1894. Craven, William H. S., Messrs. Craven Brothers, Vauxhall Iron Works, Osborne Street, Manchester. [*Vauxhall, Manchester.* 659.]

1897. Crawford, Walter William, 91 Pitt Street, Sydney, New South Wales. [*Carbonic, Sydney.* 2362.]

1898. Crewe, Henry Thomas, 11 Queen Victoria Street, London, E.C.

1889. Cribb, Frederick James, Messrs. Marshall Sons and Co., Britannia Iron Works, Gainsborough.

1893. Crippin, Thomas Henry, 105 Rosemeath Road, Urmston, Manchester.

1897. Critchley, James Sidney, British Electric Traction Co., Donington House, Norfolk Street, Strand, London, W.C.

1883. Croft, Henry, M.P., Chemanns, Vancouver Island.

1899. Crofts, John Charles Thruston, Nelson, British Columbia.

1878. Crohn, Frederick William, 14 Burney Street, Greenwich, London, S.E.

1877. Crompton, Rookes Evelyn Bell, Arc Works, Chelmsford; and Mansion House Buildings, Queen Victoria Street, London, E.C. [*Crompton, Chelmsford.*]

1898. Cronin, Richard, Locomotive Superintendent, Dublin, Wicklow and Wexford Railway, Upper Grand Canal Street, Dublin.

1884. Crook, Charles Alexander, Telegraph Construction and Maintenance Works, Enderby's Wharf, East Greenwich, London, S.E.

1881. Crosland, James Foyell Lovelock, Chief Engineer, Boiler Insurance and Steam Power Co., 67 King Street, Manchester.

1891. Crosland, Joseph, Messrs. Seebohm and Dieckstahl, Dannemora Steel Works, Sheffield; and Stanley Avenue, Birkdale, Southport.

1875. Crossley, William John, Messrs. Crossley Brothers, Great Marlborough Street, Manchester. [*Crossleys, Openshaw.*]

1900. Crosta, Lorenzo William, Clifton House, Musters Road, West Bridgford, Nottingham.

1882. Cruickshank, William Douglass, Chief Government Engineer Surveyor, Marine Board, Sydney, New South Wales.

1898. Cruttwell, George Edward Wilson, 8 Queen Anne's Gate, Westminster, S.W. [*Cruttwell, London. Westminster 571.*]

1898. Cullen, Peter John, Messrs. Henry Simon, 333 Kent Street, Sydney, New South Wales.

1889. Cullen, William Hart, Castner-Kellner Alkali Co., Weston Point, Runcorn.

1901. Cunliffe, Richard William, Messrs. Cunliffe and Croom, Broughton Iron Works, Manchester. [*Lathe, Manchester. 1886.*]

1901. Cunningham, Hugh, Works Manager, Messrs. Samuelson and Co., Britannia Iron Works, Banbury.

1900. Cutler, Arthur Edward, Public Works Department, Sydney, New South Wales.

1887. Cutler, George Benjamin, Messrs. Samuel Cutler and Sons, Providence Iron Works, Millwall, London, E.; and 10 St. John's Park, Blackheath, London, S.E. [*Cutler, Millwall. Eastern 59.*]

1876. Cutler, Samuel, Messrs. Samuel Cutler and Sons, Providence Iron Works, Millwall, London, E. [*Cutler, Millwall. Eastern 59.*]

1891. Cutler, Samuel, Jun., Messrs. Samuel Cutler and Sons, Providence Iron Works, Millwall, London, E. [*Cutler, Millwall. Eastern 59.*]

1888. Dadabhoy, Cursetjee, Messrs. Shapurji Sorabji and Co., Bombay Foundry and Engine Works, Khetwady, Bombay, India; and Cumbala Hill, Bombay, India.

1891. Daglish, Harry Bolton, Messrs. Robert Daglish and Co., St. Helens Engine and Boiler Works, St. Helens, Lancashire.

1895. Daintree, Thomas Ekins, Alma Villa, Old Park Road, Hitchin.

1883. D'Albert, Charles, Société des Anciens Établissements Hotchkiss et Cie., 6 Route de Gonesse, St. Denis, Seine, France.

1890. Dalby, William Ernest, Professor of Mechanical Engineering, City and Guilds of London Institute : Finsbury Technical College, Leonard Street, City Road, London, E.C.

1889. Dalgarro, James Robert, 454 Great Western Road, Aberdeen.

1893. Dall, John, Messrs. F. Leyland and Co., Atlantic Engine Works, Bootle, Liverpool.

1893. Dalrymple, Alexander, Superintendent Engineer, Hall Line of Steamers,  
19 Tower Buildings N., Water Street, Liverpool.

1881. D'Alton, Patrick Walter, Chief Engineer, Central London Railway,  
Power House, Shepherd's Bush, London, W.

1899. Dan, Takuma, Mitsui Mining Co., 9 Yamashiro-cho, Kio-bashi-ku, Tokyo,  
Japan.

1899. Danin, George, 110 Cannon Street, London, E.C.

1866. Daniel, Edward Freer, Messrs. Worthington and Co., The Brewery,  
Burton-on-Trent; and 89 Derby Street, Burton-on-Trent.

1866. Daniel, William, Messrs. John Fowler and Co., Steam Plough and  
Locomotive Works, Leeds; and Fern Bank, Horsforth, Leeds.

1888. Darbshire, James Edward, 110 Cannon Street, London, E.C. [*Ezra,  
London. Avenue 306.*]

1878. Darwin, Horace (*Life Member*), The Orchard, Huntingdon Road,  
Cambridge.

1873. Davey, Henry, Messrs. Hathorn Davey and Co., Sun Foundry, Dewsbury  
Road, Leeds [*Sun Foundry, Leeds*]; and 3 Prince's Street,  
Westminster, S.W. [*Subterranean, London.*]

1890. Davidson, Albert, 139 Norfolk Street, Sheffield.

1888. Davidson, Samuel Cleland, Sirocco Works, Bridge End, Belfast.

1880. Davies, Charles Merson, Messrs. Dübs and Co., Glasgow Locomotive  
Works, Glasgow; and Leslie House, Pollokshields, Glasgow.

1897. Davies, Edmund Joseph, Messrs. Ransomes, Sims and Jefferies, Orwell  
Works, Ipswich.

1885. Davies, Edward John Mines, 24 Harrington Square, London, N.W.

1891. Davies, John Hubert, Messrs. Hubert Davies and Spain, Caxton Street,  
East London, Cape Colony.

1894. Davis, George, Engineer's Office, Lancashire and Yorkshire Railway,  
Hunt's Bank, Manchester.

1900. Davis, Joseph, Chief Engineer, Sewerage Construction, Public Works  
Department, Sydney, New South Wales.

1900. Davis, Rayner, Engineer R.N., H.M.S. "Cressy," Portsmouth.

1877. Davison, John Walter, Bombay Baroda and Central India Railway,  
Ahmedabad, India: (or care of Mrs. Channon, 97 Shirland Road,  
Maida Vale, London, W.)

1884. Davison, Robert, Locomotive Department, Caledonian Railway, St. Rollox,  
Glasgow; and 4 Edgefauld Terrace, Springburn, Glasgow.

1873. Davy, David, Broom Croft, Parkhead, Sheffield.

1892. Davy, William James, 3 Crown Court, Old Broad Street, London, E.C.  
[*Management, London. Avenue 152.*]

1875. Dawson, Edward, 23 Park Place, Cardiff. [*Mechanical, Cardiff.*]

1896. Dawson, Philip, Messrs. Robert W. Blackwell and Co., 59 City Road,  
London, E.C.

1896. Day, Charles, Messrs. S. Z. de Ferranti, Hollinwood, Manchester.

1890. Day, George Cameron, Messrs. Day Summers and Co., Northam Iron Works, Southampton; and 29 Carlton Crescent, Southampton.

1886. Dayson, William Ogden, Blaenavon Works, Blaenavon, R.S.O., Monmouthshire.

1874. Deacon, George Frederick, Great George Street Chambers, 16 Great George Street, Westminster, S.W.

1880. Deacon, Richard William, Glenthorne, Astwood, Worcester.

1894. Deakin, Benjamin Walter, British Insulated Wire Co., 65 Queen Street, Melbourne, Victoria.

1900. Dean, Frederic William Charles, Royal Ordnance Factory, Royal Arsenal, Woolwich.

1868. Dean, William, Locomotive Superintendent, Great Western Railway, Swindon.

1899. Deas, James, Chief Engineer, Water, Sanitary and Electric Lighting Departments, Municipal Offices, Warrington.

1900. Deeble, William Rufus, Locomotive Superintendent, Tasmanian Government Railways, Launceston, Tasmania.

1890. Deeley, Richard Mountford, Locomotive Department, Midland Railway, Derby; and 38 Charnwood Street, Derby.

1889. Defries, Wolf, Messrs. Defries and Sons, 147 Houndsditch, London, E. [*Defries, London.*]

1901. Dellwik, Carl, Dellwik-Fleischer Water-Gas Syndicate, 25 Victoria Street, Westminster, S.W.

1900. Denham, John, Electrician, Electric Light Department, Cape Government Railways, Cape Town, Cape Colony.

1882. Denison, Samuel, Messrs. Samuel Denison and Son, Hunslet Foundry, Leeds. [*Weigh, Leeds.* Central 1238.]

1892. Dennis, George D., 26 Newton Road, Bayswater, London, W.

1900. Denny, John, Messrs. Denny Brothers, Fremantle, Western Australia.

1888. Dent, Charles Hastings, London and North Western Railway, Lime Street Station, Liverpool.

1898. De Ritter, Walter Henry, 33 Three Colt Street, Limehouse, London, E. [*Deritter, London.* Eastern 664.]

1895. Dewhurst, John Henry, Messrs. John Dewhurst and Son, Attercliffe Road, Sheffield. [1614.]

1899. Dewrance, John, 165 Great Dover Street, London, S.E.; and Cranmore Place, Chislehurst.

1900. Dews, Frank, Messrs. Edwin Danks and Co., Oldbury Boiler Works, Oldbury, Birmingham; and 120 Wilton Road, Sparkhill, Birmingham.

1883. Dick, Frank Wesley, Park Gate Iron and Steel Works, Rotherham.

1891. Dick, John Norman, Government Marine Surveyor, Penang, Straits Settlements.

1890. Dickinson, Alfred, Telephone Buildings, Birmingham. [*Traction, Birmingham.* 1823.]

1894. Dickinson, Harold, Central Electric Lighting Station, Yorkshire House to House Electricity Co., Whitehall Road, Leeds. [*Electricity, Leeds. Central* 1013.]

1891. Dickinson, James Clark, Palmer's Hill Engine Works, Sunderland.

1880. Dickinson, John, Palmer's Hill Engine Works, Sunderland. [*Bede, Sunderland.*]

1892. Dickinson, Richard Henry, Locomotive Superintendent, Birmingham Central Tramways, Kyotts Lake Depôt, Birmingham.

1875. Dickinson, William, Warham Road, Croydon.

1899. Ditchburn, Robert, Superintending Engineer, Bombay Steam Navigation Co., Bombay, India.

1886. Dixon, Robert, Oakfield, Lymn, Warrington.

1883. Dixon, Samuel, Messrs. Kendall and Gent, Victoria Works, Belle Vue, Manchester. [*Tools, Manchester.* 5147.]

1898. Dixon, Walter, 59 Bath Street, Glasgow. [*Fresco, Glasgow.* 3656.]

1897. Dixon, Walter Frank, Kompanaya Singer, Podolsk, Moscow Government, Russia.

1887. Dixon, William Basil, 11 Queen Victoria Street, London, E.C.

1896. Dobson, Adam, Woodside, Bessbrook, Co. Armagh, Ireland.

1899. Dobson, Sydney Thornton, Chief Engineer, St. James's and Pall Mall Electric Light Co., 19 Carnaby Street, Golden Square, London, W. [*Fulleresco, London.* Gerrard 5082.]

1880. Dodd, John, Messrs. Platt Brothers and Co., Hartford Iron Works, Oldham.

1868. Dodman, Alfred, Highgate Foundry, Lynn. [*Dodman, Lynn.*]

1889. Dolby, Ernest Richard, Messrs. Dolby and Williamson, 8 Prince's Street, Westminster, S.W.

1898. Donaldson, Hay Frederick, Deputy Director General of Ordnance Factories, Royal Arsenal, Woolwich; and Wood Lodge, Shooter's Hill, Kent.

1873. Donkin, Bryan (*Life Member*), Messrs. Bryan Donkin and Clench, 55 Southwark Park Road, Bermondsey, London, S.E. [*Donkin Company, London.* Hop 662.]; and The Mount, Wray Park, Reigate.

1895. Donkin, Harry Julyan, Messrs. Bryan Donkin and Clench, 55 Southwark Park Road, Bermondsey, London, S.E.

1891. Donovan, Edward Wynne, Messrs. Donovan and Co., Broughton Bridge Iron Works, Salford, Manchester. [*Dazzle, Manchester.* 3404.]

1896. Dorman, William Sansom, Works Manager, Gloucester Wagon Works, Gloucester.

1865. Douglas, Charles Prattman (*Life Member*), Thornbeck Hill, Carmel Road, Darlington.

1900. Douglas, James McDonald, Stanbridge House, Canning Crescent, Wood Green, London, N.

1879. Douglass, William, Chief Engineer to the Commissioners of Irish Lights, Westmoreland Street, Dublin.

1891. Douglass, William James, Messrs. Douglass Brothers, Globe Iron Works, Blaydon-on-Tyne, R.S.O., County Durham.

1887. Douglass, William Tregarthen, 15 Victoria Street, Westminster, S.W.

1857. Dove, George, Messrs. Cowans Sheldon and Co., St. Nicholas Engine and Iron Works, Carlisle; and Viewfield, Stanwix, near Carlisle.

1873. Dove, George, Redbourn Hill Iron and Coal Co., Frodingham, near Doncaster [*Redbourn, Frodingham.*]; and Hodroyd Hall, near Barnsley.

1900. Dow, James William, Works Manager, Cambrian Railways, Oswestry.

1866. Downey, Alfred C., Messrs. Downey and Co., Coatham Iron Works, Middlesbrough; and Belle Vue, Marton Road, Middlesbrough.

1881. Dowson, Joseph Emerson, 39 Old Queen Street, Westminster, S.W. [*Gaseous, London.*]

1880. Doxford, Robert Pile, Messrs. William Doxford and Sons, Pallion Shipbuilding and Engine Works, Sunderland.

1874. Dredge, James, C.M.G., 35 Bedford Street, Strand, London, W.C. [Gerrard 3663.]

1899. Drew, Alexander, 22 Rutland Square, Edinburgh.

1890. Drewet, Tom, Government Senior Inspector of Steam Boilers, Town Custom House, Bombay, India.

1898. Dronsfield, Joseph Standring, Messrs. Dronsfield Brothers, Atlas Works, Oldham.

1896. Dronsfield, William, Messrs. Dronsfield Brothers, Atlas Works, Oldham.

1886. Drummond, Dugald, Locomotive Engineer, London and South Western Railway, Nine Elms, London, S.W.

1898. Drummond, George William, Glasgow Railway Engineering Co., 13 Victoria Street, Westminster, S.W. [*Azabra, London.*]

1898. Drummond, Peter, Locomotive Superintendent, Highland Railway, Inverness.

1899. Drummond, Walter, Glasgow Railway Engineering Co., Govan, Glasgow.

1900. Dryden, Albert, H.M. Mint, Calcutta, India: (or care of Messrs. Grindlay and Co., 55 Parliament Street, Westminster, S.W.)

1896. Dryden, Thomas, Grimshaw Street Foundry, Preston. [36.]

1877. Dübs, Charles Ralph, Messrs. Dübs and Co., Glasgow Locomotive Works, Glasgow.

1885. Duckering, Charles, Water Side Works, Rosemary Lane, Lincoln.

1900. Dudin, Henry William, Messrs. Yarrow and Co., Isle of Dogs, Poplar, London, E.

1868. Dugard, William Henry, Messrs. Dugard Brothers, Vulcan Rolling Mills, Bridge Street West, Summer Lane, Birmingham. [*Vulcan, Birmingham.*]

1886. Duncan, Norman, Mechanical Engineer to the Municipality, Rangoon, British Burmah, India.

1894. Dunell, George Robert, 36 Bedford Street, Strand, London, W.C.; and  
7 Spencer Road, Grove Park, Chiswick, London, W.

1898. Dunkerley, Stanley, Professor of Applied Mechanics, Royal Naval College,  
Greenwich, London, S.E.

1892. Dunlop, James, Victoria Jubilee Technical Institute, Byculla, Bombay, India.

1870. Dunlop, James Wilkie, 39 Delancey Street, Regent's Park, London, N.W.

1900. Dunlop, Peter, Pulsometer Engineering Co., Nine Elms, London, S.W.;  
and 86 Larkhall Rise, Clapham, London, S.W.

1899. Dunn, Andrew Macfarlane, Works Manager, Messrs. J. and P. Coats,  
Ferguslie Thread Works, Paisley.

1890. Dunn, Hugh Shaw, Engineer, Caprington Collieries, Kilmarnock.

1895. Dunn, Matthew, Engineer, Gas and Water Department, Urban District  
Council, Goole.

1899. Durston, Sir Albert John, K.C.B., R.N., Engineer-in-Chief, Admiralty,  
Whitehall, London, S.W.; and 4 Westcombe Park Road, Blackheath,  
London, S.E.

1886. Duvall, Charles Anthony, Haseley Iron Works, Wallingford.

1865. Dyson, Robert, Messrs. Owen and Dyson, Rother Iron Works, Rotherham.

1880. Eager, John Edward, Messrs. William Crichton and Co., Engineering and  
Shipbuilding Works, Abo, Finland.

1858. Easton, Edward, 11 Delahay Street, Westminster, S.W.

1884. Eastwood, Charles, Manager, Linacre Gas Works, Liverpool.

1892. Eastwood, Thomas Carline, Messrs. Eastwood Swingler and Co., Victoria  
and Railway Iron Works, Derby. [*Swingler, Derby.*]

1888. Eaton-Shore, George, Borough Engineer, Temple Chambers, Crewe.

1896. Eborall, Cornelius Willes, District Locomotive Superintendent, East  
Indian Railway, Jamalpur, India: (or care of Messrs. William Watson  
and Co. 7 Waterloo Place, Pall Mall, London, S.W.)

1897. Echevarri, Juan Thomas Wood, British Aluminium Co., 9 Victoria Street,  
Westminster, S.W.

1878. Eckart, William Roberts, Room 4, Nevada Block, San Francisco; and  
3014 Clay Street, San Francisco, California, United States.

1886. Ede, Francis Joseph, Messrs. Ede Brothers, Silchar, Cachar, India.

1892. Edgecome, James Edmund, Borough Electrical Engineer, Kingston-on-  
Thames.

1883. Edmiston, James Brown, Marine Superintending Engineer, Messrs.  
Hamilton Fraser and Co., K Exchange Buildings, Liverpool; and Ivy  
Cottage, Highfield Road, Walton, Liverpool.

1900. Edwards, Albert Edward Alexander, Messrs. Edwards and Shaw,  
105 Colmore Row, Birmingham. [3705.]

1877. Edwards, Frederick, 62 Bishopsgate Street Within, London, E.C.

1891. Edwards, Herbert Francis, Messrs. Forster, Brown and Rees, Guildhall Chambers, Cardiff.

1885. Edwards, Walter Cleeve, Public Works Department, Cape Town, Cape Colony.

1896. Ekin, Tom Charles, 21 Old Queen Street, Westminster, S.W.

1899. Elford, Ernest John, Water Engineer, Water Engineer's Department, New Road, Portland.

1888. Ellery, Henry George, 7 Fernbank Road, Redland, Bristol.

1875. Ellington, Edward Bayzand, Palace Chambers, 9 Bridge Street, Westminster, S.W.

1892. Elliott, Archibald Campbell, D.Sc., Professor of Engineering, University College of South Wales and Monmouthshire, Cardiff.

1895. Elliott, George, 2 Clarinda, Cavehill Road, Belfast.

1895. Ellis, Arthur Devonshire, Managing Director, Messrs. Thwaites Brothers, Vulcan Iron Works, Bradford.

1901. Ellis, Reginald Eaton, 70 Chancery Lane, London, W.C. [*Powerful, London. Holborn 243.*]

1896. Ellis, William Frederick Wood, 10 St. James's Square, John Dalton Street, Manchester.

1900. Elmer, Joseph John, Works Manager, Westinghouse Brake Co., 82 York Road, King's Cross, London, N.; and Ethelmar House, Waverley Road, Crouch End, London, N.

1897. Elsworth, John Francis, Les Huileries, Alexandria, Egypt.

1885. Elsworthy, Edward Houtson, Messrs. Richardson and Cruddas, Byculla Iron Works, Bombay, India; and The Ridge, Malabar Hill, Bombay, India.

1878. Elwin, Charles, London County Council, Spring Gardens, London, S.W.

1890. English, Lt.-Colonel Thomas, Hawley, near Dartford.

1894. English, Thomas Matthew, Superintendent, Die and Coining Department, H. M. Mint, Bombay, India.

1894. Ennor, Charles John, 55 Rua da Reboleira, Oporto, Portugal.

1890. Esson, John, Chatteris Engineering Works, Chatteris, S.O., Cambridgeshire.

1901. Esson, John, 104-107 Fetter Lane, London, E.C. [*Essons, London. Holborn 1064.*]

1884. Etherington, John, 39A King William Street, London Bridge, London, E.C.

1887. Evans, Arthur George, Palace Chambers, 9 Bridge Street, Westminster, S.W.; and Kington Langley, Chippenham.

1884. Evans, David, Messrs. Bolckow Vaughan and Co., Cleveland Iron and Steel Works, South Bank, R.S.O., Yorkshire.

1887. Everitt, Nevill Henry, Messrs. Thomas Piggott and Co., Atlas Works, Birmingham; and Hillside, Knowle, Warwickshire.

1897. Evers, Joseph Henry, General Manager, Messrs. Manning, Wardle and Co., Boyne Engine Works, Hunslet, Leeds. [*Manning, Leeds.*]

1894. Ewen, John Taylor, Millbank House, Forfar.

1881. Ewen, Thomas Buttwell, Messrs. Ewen and Mitton, Smithfield Works, Sherlock Street, Birmingham.

1891. Ewing, James Alfred, LL.D., F.R.S., Professor of Mechanism and Applied Mechanics, Engineering Department, The University, Cambridge; and Langdale Lodge, Cambridge.

1890. Exton, George Gaskell, Messrs. Chubb and Son, 128 Queen Victoria Street, London, E.C.

1868. Fairbairn, Sir Andrew, Messrs. Fairbairn Naylor Macpherson and Co., Wellington Foundry, Leeds; and Askham Richard, York.

1880. Farcot, Paul, Messrs. Farcot and Sons, Engine Works, 17 Avenue de la Gare, St. Ouen, France.

1881. Farrar, Sidney Howard, Messrs. Howard Farrar and Co., Port Elizabeth, South Africa; and care of Messrs. F. A. Robinson and Co., 54 Old Broad Street, London, E.C.

1900. Favell, Thomas Milnes, Fairwood, Pine Grove, Weybridge.

1900. Feak, William Mark, Fleet Engineer R.N. (Retired), Mill House, Blackheath, London, S.E.

1882. Feeny, Victor Isidore, 60 Queen Victoria Street, London, E.C. [*Victor Feeny, London.*]

1899. Feetham, Mark, London Electric Supply Corporation, Stowage Wharf, Deptford, London, S.E.

1876. Fell, John Corry, 1 Queen Victoria Street, London, E.C.; and Excelsior Works, Old Street, London, E.C.

1869. Fenwick, Clennell, 57 Gracechurch Street, London, E.C.; and 17 Dalebury Road, Upper Tooting, London, S.W.

1892. Fenwick, James, 19 Bridge Street, Sydney, New South Wales. [1038.]

1881. Ferguson, William, Harbour Board, Wellington, New Zealand: (or care of Montgomery Ferguson, 81 James Street, Dublin.)

1896. Ferguson, William Deeble, Albert Villa, Ravenhill Road, Belfast.

1900. Ferranti, Sebastian Ziani de, Hollinwood, Manchester; and Ingleside, Lyndhurst Road, Hampstead, London, N.W.

1866. Fiddes, Walter, 2 Queen's Avenue, Tyndall's Park, Bristol.

1867. Field, Edward, 4 Trafalgar Square, London, W.C.

1888. Field, Howard, 38 Mincing Lane, London, E.C.

1884. Fielden, Joseph Petrie, Park Terrace, Rochdale.

1874. Fielding, John, Messrs. Fielding and Platt, Atlas Iron Works, Gloucester. [*Atlas, Gloucester.*]

1891. Finlayson, Finlay, Laird Street, Coatbridge.

1899. Firth, Ambrose, Messrs. Walker, Eaton and Co., Wicker Iron Works, Sheffield. [*Founder, Sheffield.* 373.]

1897. Fish, Sylvester Robert, Messrs. F. Street and Co., Palacio da Flôr da Murta, 156 Rua do Poço dos Negros 158, Lisbon, Portugal.

1889. Fisher, Henry Bedwell, Marine Shops, London Brighton and South Coast Railway, Newhaven, Sussex.

1884. Fisher, Henry Oakden, Ty Mynydd, Radyr, near Cardiff.

1897. Fisher, Pearson, Messrs. Manlove, Alliott and Co., Blooms Grove Works, Nottingham.

1888. FitzGerald, Maurice Frederick, Professor of Engineering, Queen's College, Belfast.

1877. Flannery, Sir James Fortescue, M.P., 9 Fenchurch Street, London, E.C. [Avenue 338.]

1898. Fletcher, William, Messrs. Clayton and Shuttleworth, Stamp End Works, Lincoln.

1892. Focken, Charles Frederick, care of Institute of Engineers and Shipbuilders, Hong Kong, China.

1899. Footner, Harry, London and North Western Railway, Crewe.

1882. Forbes, David Moncur, Engineer, H. M. Mint, Bombay.

1892. Forbes, Percy Alexander, Messrs. Lambert Brothers, Tube Mills, Iron and Brass Works, Walsall.

1882. Forbes, William George Loudon Stuart, Mechanical Superintendent, H. M. Mint, Calcutta.

1899. Ford, Thomas Wharton, Palace Chambers, 9 Bridge Street, Westminster, S.W.

1899. Ford-Moore, Arthur Pilcher, Messrs. Stuart and Moore, Victoria Electrical Works, Ealing, London, W. [*Burning, London.*]

1892. Forrest, Hilary Sheldon, General Manager, Messrs. Dobson and Barlow, Kay Street Machine Works, Bolton.

1888. Forster, Alfred Llewellyn, Engineer, Newcastle and Gateshead Water Works, Newcastle-on-Tyne.

1882. Forsyth, Robert Alexander, Courtway, Gold Tops, Newport, Monmouthshire.

1889. Foster, Ernest Howard, Power Specialty Co., 126 Liberty Street, New York, United States.

1889. Foster, Herbert Anderton (*Life Member*), Messrs. John Foster and Son, Black Dike Spinning Mills, Queensbury, near Bradford.

1888. Foster, James, Lily Bank, St. Andrew's Drive, Pollokshields, Glasgow.

1884. Foster, John Slater, Messrs. Jones and Foster, 39 Bloomsbury Street, Birmingham.

1882. Fothergill, John Reed, Consulting Engineer, Dock Office, West Hartlepool; and 1 Bathgate Terrace, West Hartlepool.

1877. Foulis, William, Manager, Glasgow Corporation Gas Department, City Chambers, 45 John Street, Glasgow.

1885. Fourny, Hector Foster, French Chambers, Queen's Dock-Side, Hull [*Veritas, Hull.*]

1900. Fowler, Alexander Farquharson, Engineer, Ribble Navigation, Dock Offices, Preston.

1866. Fowler, George, Basford Hall, near Nottingham.

1896. Fowler, Henry, Locomotive Department, Midland Railway, Derby.

1894. Fowler, Robert Henry, Messrs. John Fowler and Co., Steam Plough and Locomotive Works, Leeds. [*Fowler, Leeds.*]

1885. Fowler, William Henry, 53 New Bailey Street, Manchester; and Brook House, Flixton, near Manchester.

1900. Fox, Charles Heyland, Broad Street House, Old Broad Street, London, E.C.

1866. Fox, Sir Douglas, 28 Victoria Street, Westminster, S.W.

1875. Fox, Samson, Blairquhan Castle, Maybole; and Grove House, Harrogate.

1884. Frampton, Edwin, General Engine and Boiler Co., Hatcham Iron Works, Pomeroy Street, New Cross Road, London, S.E. [*Oxygen, London.*]

1885. Franki, James Peter, Mort's Dock and Engineering Co., Mort's Bay, Sydney, New South Wales: (or care of Messrs. Goldsborough Mort and Co., 149 Leadenhall Street, London, E.C.)

1877. Fraser, John Hazell, Messrs. John Fraser and Son, Millwall Boiler Works, London, E.; and 110 Cannon Street, London, E.C.

1899. Fraser, Patrick, Messrs. Douglas Fraser and Sons, Westburn Foundry, Arbroath.

1866. Fry, Albert, Bristol Wagon Works, Lawrence Hill, Bristol.

1900. Fujii, Terugoro, care of Admiralty, Tokyo, Japan.

1891. Fuller, Charles Frederick, 97 Queen Victoria Street, London, E.C.

1890. Gadd, William, Acting Locomotive Superintendent, Waterford, Limerick and Western Railway, Limerick.

1866. Galloway, Charles John, Managing Director, Messrs. Galloways, Knott Mill Iron Works, Manchester. [*Galloway, Manchester.*]

1898. Gandy, Frederick, Staveley Coal and Iron Co., Chesterfield.

1884. Ganga Ram, Rai Bahadur, Executive Engineer, Public Works Department, Amritsar, Punjab, India: (or care of Messrs. Thomas Wilson and Co., 10 and 12 Eastcheap, London, E.C.)

1899. Gardner, William, Vauxhall Iron Works Co., 45 Leadenhall Street, London, E.C. [*Wellhole, London. Avenue 800.*]

1891. Garrard, Charles Riley, Garrard Manufacturing Co., Magneto Works, Ryland Street, Birmingham. [*Gearing, Birmingham. 904.*]

1899. Garrard, George Mingay, Broseley, Shropshire.

1882. Garrett, Frank, Messrs. Richard Garrett and Sons, Leiston Works, Leiston, R.S.O., Suffolk. [*Garrett, Leiston.*]

1899. Garvie, James, Managing Director, Southgate Engineering Co., New Southgate, London, N. [*Centrifugal, New Southgate.*]

1894. Gatehouse, Tom Ernest, 4 Ludgate Hill, London, E.C. [*Ageekay, London. Holborn 933.*]

1888. Gaze, Edward Henry James, 4 Victoria Drive, Mount Florida, Glasgow.

1895. Geach, Frederick Samuel, United Alkali Co., Pilkington Works, Widnes.

1888. Geddes, Christopher, 2A Drury Buildings, Water Street, Liverpool. [*Graccius, Liverpool.*]

1880. Geoghegan, Samuel, Messrs. A. Guinness Son and Co., St. James' Gate Brewery, Dublin. [*Guinness, Dublin.*]

1896. German, Walter Hussey, Colonial Sugar Refining Co., Sydney, New South Wales.

1887. Gibb, Andrew, Managing Engineer, Messrs. Rait and Gardiner, Millwall Docks, London, E.; and Garthland, Westcombe Park Road, Blackheath, London, S.E.

1871. Gibbins, Richard Cadbury, Berkley Street, Birmingham. [*Gibbins, Birmingham.*]

1901. Gibbs, John Henry, Britannia Iron Works, Cape Town, Cape Colony.

1899. Gibson-Sugars, John Sugars, Chief Engineer, R.N., H.M.S. "Pioneer," care of Postmaster-General, London, E.C.

1883. Gilchrist, Percy Carlyle, F.R.S. (*Life Member*), Frogнал Bank, Finchley Road, Hampstead, London, N.W.

1898. Giles, Benjamin, Divisional Superintendent, Great Western Railway, Newton Abbot.

1880. Gill, Charles, Messrs. Young and Gill, Engineering Works, Java; and Java Lodge, Beckenham.

1884. Gimson, Arthur James, Messrs. Gimson and Co., Engine Works, Vulcan Street, Leicester. [*Gimson, Leicester. 6.*]

1881. Girdwood, William Wallace, 24 Plashet Road, Upton Manor, London, E.

1896. Glasgow, Arthur Graham (*Life Member*), Messrs. Humphreys and Glasgow, 38 Victoria Street, Westminster, S.W.

1898. Glen, David Corse, Messrs. Matheson and Co., 3 Lombard Street, London, E.C.

1880. Godfrey, William Bernard, 23 St. Swithin's Lane, London, E.C.

1888. Goff, John, Messrs. Salt and Co., The Brewery, Burton-on-Trent.

1882. Goldsmith, Alfred Joseph, Lillington, Moray Street, New Farm, Brisbane, Queensland.

1877. Goodbody, Robert, Messrs. Goodbody, Clashawaun Jute Factory, Clara, near Moate, Ireland.

1875. Goodfellow, George Ben, Messrs. Goodfellow and Matthews, Hyde Iron Works, Hyde, near Manchester. [*Goodfellow, Hyde.*]

1890. Goodman, John, Professor of Engineering, Yorkshire College, Leeds.

1899. Goodwin, Albert Beecham, 170 South Park Road, Wimbledon.

1889. Goold, William Tom, Shillingford Engineering Co., Trusty Engine Works, Cheltenham.

1887. Gordon, Alexander, 23 Victoria Street, Westminster, S.W. [*Nilucus, London.*]

1879. Gorman, William Augustus, Messrs. Siebe and Gorman, 187 Westminster Bridge Road, London, S.E. [*Siebe, London.*]

1877. Goultby, Wallis Rivers, Kuruman, Leicester Road, Altringham.

1878. Grafton, Alexander, Vulcan Works, Bedford. [*Grafton, Bedford.*]

1901. Graham, Jesse, Messrs. William Aykroyd and Sons, Oakwood Dye Works, Bradford.

1894. Graham, Maurice, Messrs. Graham, Morton and Co., Black Bull Street, Leeds.

1896. Graham, Robert, Ponce, Porto Rico.

1900. Graham, William Vaux, 5 Queen Anne's Gate, Westminster, S.W. [*Grallator, London. Westminster 656.*]

1900. Grant, Lewis, Messrs. Douglas and Grant, Dunnikier Foundry, Kirkcaldy. [*Douglas, Kirkcaldy. 105.*]

1886. Grant, Percy, Assistant Locomotive, Carriage, and Wagon Superintendent, Sola Works, Ferro Carril del Sud, Buenos Aires, Argentine Republic: (or care of John M. Grant, 136 Sutherland Avenue, Maida Vale, London, W.)

1895. Grant, Thomas Maxwell, Managing Director, Messrs. Napier Brothers, 100 Hyde Park Street, Glasgow. [*Windlass, Glasgow. 714.*]

1891. Gray, George Macfarlane (*Life Member*), Board of Trade Surveyors' Office, Custom House Arcade, Liverpool.

1865. Gray, John Macfarlane, 4 Ladbroke Crescent, Notting Hill, London, W.

1879. Gray, Thomas Lowe (*Life Member*), Lloyd's Register, 2 White Lion Court, Cornhill, London, E.C.; and 24 St. Michael's Road, Stockwell, London, S.W.

1900. Greaven, Andrew Augustine, Works Manager, Sola Works, Ferro Carril del Sud, Buenos Aires, Argentine Republic.

1898. Greaven, Louis, Locomotive, Carriage and Wagon Superintendent, Inter-Oceanic Railway, Puebla, Mexico: (or care of F. Nolan, 17 Beach, Queenstown, Co. Cork.)

1861. Green, Sir Edward, Bart., Messrs. E. Green and Son, Phœnix Works, Wakefield.

1901. Green, Thomas, Messrs. Steel, Peech and Tozer, The Ickles, Rotherham.

1898. Green, Thomas Willoughby, Messrs. Thomas Green and Son, Smithfield Iron Works, Leeds. [*Smithfield, Leeds. Central 158.*]

1893. Green, William Penrose, Messrs. Thomas Green and Son, Smithfield Iron Works, Leeds. [*Smithfield, Leeds. Central 158.*]

1895. Greensmith, James Eades, Mason Machine Works, Taunton, Massachusetts, United States.

1878. Greenwood, Arthur, Messrs. Greenwood and Batley, Albion Works, Leeds.

1874. Greenwood, William Henry (*Life Member*), Birmingham Metal and Munitions Co., Adderley Park Mills, Birmingham.

1894. Gregory, Horace Mark, Messrs. Brown, Lenox and Co., 9 Martin's Lane, Cannon Street, London, E.C. ; and Ynysyngharad, Pontypridd.

1892. Gresham, Harry Edward, Messrs. Gresham and Craven, Craven Iron Works, Salford, Manchester. [*Brake, Manchester.* 613.]

1880. Gresham, James, Messrs. Gresham and Craven, Craven Iron Works, Salford, Manchester. [*Brake, Manchester.* 613.]

1883. Grew, Frederick, 68 Burnt Ash Hill, Lee, London, S.E.

1895. Griffith, Percy, 54 Parliament Street, Westminster, S.W.

1895. Griffiths, Harry Denis, Manager, Clark's Consolidated, P.O. Box 201, Bulawayo, Rhodesia, South Africa.

1873. Griffiths, John Alfred, Patent Office, Brisbane, Queensland.

1889. Grimshaw, James Walter, Resident Engineer, Harbours and Rivers Department, Sydney, New South Wales; and Australian Club, Sydney, New South Wales.

1891. Groom, Richard Alfred, Shropshire Works, Wellington, Salop.

1879. Grose, Arthur, Messrs. Grose Norman and Co., Reliance Works, Northampton.

1886. Grove, David, 24 Friedrich Strasse, Berlin.

1898. Grover, Frederick, Greek Street Chambers, Leeds.

1898. Guest, Charles Henry, General Manager, Messrs. R. W. Webb, Draycott, near Derby. [*Tyre, Draycott.* 1632.]

1900. Guest, James John, Cornwall Buildings, Newmarket Street, Birmingham.

1884. Gulland, James Ker, Diamond Drill Co., 8 Victoria Street, Westminster, S.W. [*Gulland, London.*]

1870. Gwynne, James Eglinton Anderson (*Life Member*), Brooke Street Works, Holborn, London, E.C. [*Gwynnegram, London.*]

1870. Gwynne, John, Hammersmith Iron Works, Hammersmith, London, W. ; and 81 Cannon Street, London, E.C. [*Gwynne, London.*]

1899. Hacking, William Henry, Lord Street, Bury, Lancashire.

1888. Hadfield, Robert Abbott, Hecla Foundry Steel Works, Sheffield. [*Hadfield, Sheffield.*]

1894. Haigh, Noel Newall, Messrs. W. B. Haigh and Co., Globe Iron Works, Plane Street, Oldham.

1900. Halcomb, Sydney Broughton, Messrs. Sanderson Brothers and Co., Sheffield. [*Sanderson, Sheffield.* 69.]

1897. Haldane, John Wilton Cuninghame, 30 North John Street, Liverpool.

1884. Hall, Albert Francis, George F. Blake Manufacturing Co., Third Street, East Cambridge, Massachusetts; and 3 Cordis Street, Charlestown, Boston, Massachusetts, United States.

1894. Hall, Henry Platt, Messrs. Platt Brothers and Co., Hartford New Works, Oldham.

1881. Hall, John Percy, Carville, Lawrie Park Road, Sydenham, London, S.E.

1882. Hall, John Willim, 71 Temple Row, Birmingham.

1890. Hall, Oscar Standring, Messrs. Robert Hall and Sons, Hope Foundry, Bury, Lancashire; and Park Cottage, Bury, Lancashire.

1874. Hall, Thomas Bernard, 119 Colmore Row, Birmingham; and Ingleside, Sandon Road, Edgbaston, Birmingham. [*Tamar, Birmingham.*]

1900. Hall, William Brasier, Engineer R.N., H.M.S. "Duncan"; care of Thames Iron Works Co., Greenwich, London, S.E.

1871. Hall, William Silver, 9A Tsukiji, Tokyo, Japan: (or care of Messrs. Takata and Co., 88 Bishopsgate Street Within, London, E.C.) [*Silverhall, Tokyo.*]

1889. Hall-Brown, Ebenezer, Messrs. Hall-Brown Buttery and Co., Helen Street Engine Works, Govan, Glasgow. [*Triple, Glasgow. South Side 1843.*]

1880. Hallett, John Harry, 123 Bute Street, Cardiff. [*Consulting, Cardiff.*]

1871. Halpin, Druitt, 17 Victoria Street, Westminster, S.W. [*Halpin, London. Westminster 75*, care of Victoria Chambers Co.]

1898. Halstead, Arthur Frederick, Locomotive Superintendent, Rio Tinto Railway, Huelva, Spain.

1895. Halstead, John Henry, La Administracion, Ferro Carril Central del Uruguay, Monte Video, Uruguay: (or 24 Alma Road, Birkdale, Southport.)

1900. Hambly, John, Messrs. Hambly and Mangold, P.O. Box 336, Port Elizabeth, South Africa.

1894. Hamer, Walter, Messrs. Dobson and Barlow, Kay Street Machine Works, Bolton. [*Dobsons, Bolton.*]

1894. Hamilton, Robert, Resident Engineer, Caledonia Estate, Province Wellesley, Penang, Straits Settlements.

1898. Hammett, John George, Mahalakshini Station Road, Bombay, India.

1899. Hammond, Robert, 64 Victoria Street, Westminster, S.W. [*Hammond, London. Westminster 495.*]

1875. Hammond, Walter John, The Grange, Knockholt, near Sevenoaks.

1886. Hanbury, John James, Edgeley, 141 Walm Lane, Cricklewood, London, N.W.

1899. Hancock, Samuel, Eastern Extension Telegraph Co., Singapore, Straits Settlements.

1896. Handyside, Charles Baird, Messrs. Waterlow and Sons, Finsbury, London, E.C.

1891. Harcourt, Otto Simon Henry, Clarence Iron Works, Leeds.

1894. Harding, James Cooper, Messrs. T. Richardson and Sons, Hartlepool Engine Works, Hartlepool.

1888. Harding, Thomas Walter, Tower Works, Leeds.

1881. Hardingham, George Gatton Melhuish, Clun House, Surrey Street, London, W.C. [*Hardingham, London.*]

1883. Hardy, John George, 13 Riemergasse, Stadt, Vienna.

1869. Harfield, William Horatio, Arundel House, Thames Embankment, London, W.C. [*Harfield, London.*]

1887. Hargraves, Richard, 4 Richmond Terrace, Blackburn.

1887. Hargreaves, John Henry, Messrs. Hick Hargreaves and Co., Soho Iron Works, Crook Street, Bolton.

1888. Harker, William, Messrs. Richard Schram and Co., Cannon Street House, London, E.C. [*Schram, London.*]

1898. Harlock, Edward Baker, Messrs. Brunner, Mond and Co., Middlewich.

1894. Harmer, Oscar, Messrs. Alfred Herbert and Co., Coventry; and Hopedale, Spencer Park, Coventry.

1899. Harrap, George Thomas, 5 Budge Row, Cannon Street, London, E.C.

1891. Harris, Gordon, Messrs. Merryweather and Sons, Fire-Engine Works, Greenwich Road, London, S.E.

1879. Harris, Henry Graham, Messrs. Bramwell and Harris, 5 Great George Street, Westminster, S.W. [*Wellbram, London.* Westminster 60.]

1900. Harris, Lloyd Price, Works Manager, Messrs. Grafton and Co., Vulcan Works, Bedford.

1873. Harris, Richard Henry (*Life Member*), 63 Queen Victoria Street, London, E.C.; and Oak Hill, Surbiton, R.O., near Kingston-on-Thames.

1877. Harris, William Wallington, Messrs. A. M. Perkins and Son, 6 Seaford Street, Regent Square, London, W.C.; and 24 Alexandra Road, Hornsey, London, N.

1900. Harrison, Campbell Grove, Messrs. Lloyd and Lloyd, Coombs Wood, Halesowen, near Birmingham; and Bundle Hill, Halesowen, Birmingham.

1898. Harrison, Frank, Messrs. Marshall, Sons and Co., 99 Clive Street, Calcutta, India.

1885. Harrison, Frederick Henry, Lincoln Malleable Iron Works, Lincoln. [*Malleable, Lincoln.*]

1888. Harrison, George, Messrs. D. Young and Co., 11 and 12 Southampton Buildings, London, W.C. [*Junkring, London.* Holborn 893.]

1889. Harrison, Captain Gilbert Harwood, R.E., War Office, Whitehall, London, S.W.

1885. Harrison, Joseph, Royal College of Science, Exhibition Road, South Kensington, London, S.W.

1891. Harrison, Joseph Hutchinson, Messrs. Howson and Harrison, 2 Exchange Place, Middlesbrough; and Clifford Villa, Coatham, Redcar.

1887. Harrison, Thomas Henry, Messrs. Davey Paxman and Co., 78 Queen Victoria Street, London, E.C.

1894. Harrison, William John, Locomotive Superintendent, Cia. Paulista, Rio Claro, São Paulo, Brazil; and 44 Bournemouth Road, Folkestone.

1890. Harrison, William Robert, Burnett Avenue, Seale Lane, Hull. [*Arbitrate, Hull.*]

1883. Hart, Frederick, 36 Prospect Street, Poughkeepsie, New York, United States.

1872. Hartnell, Wilson, Benson's Buildings, Park Row, Leeds.

1892. Harvey, Francis Haniel, Messrs. Harvey and Co., Hayle Foundry, Hayle, Cornwall.

1886. Harvey, John Boyd, North's Navigation Collieries, Tondū, near Bridgend, Glamorganshire.

1883. Harvey, Sir Robert, 1 Palace Gate, London, W.

1897. Harvey, Robert, Managing Director, Messrs. McOnie, Harvey and Co., Scotland Street Engine Works, Glasgow. [*Maconie, Glasgow. Royal 565.*]

1878. Harwood, Robert, Soho Iron Works, Bolton.

1881. Haslam, Sir Alfred Seale, M.P., Union Foundry, Derby. [*Zero, Derby.*]

1898. Haslam, William Gilbert, Union Foundry, Derby.

1899. Hatch, William Thomas, Engineer-in-Chief, Metropolitan Asylums Board, Victoria Embankment, London, E.C.

1900. Hattersley, Robert Lund, Woodsend Works, Flixton, near Manchester.

1885. Hatton, Robert James, Henley's Telegraph Works, North Woolwich London, E.

1885. Haughton, Thomas James, Constitutional Club, Northumberland Avenue, London, W.C.

1892. Hawkins, Rupert Skelton, Locomotive and Carriage Superintendent, Assam and Bengal Railway, Pahartali P.O., Chittagong, India.

1861. Hawkins, William Bailey, 39 Lombard Street, London, E.C.

1870. Hawksley, Charles, 30 Great George Street, Westminster, S.W.

1891. Hawksley, George William, Brightside Boiler and Engine Works, Savile Street East, Sheffield. [*Hawksley, Sheffield. 327.*]

1900. Hawksley, Kenneth Phipson, 30 Great George Street, Westminster, S.W.

1882. Hayes, Edward, Watling Works, Stony Stratford. [*Hayes, Stony Stratford.*]

1879. Hayes, John, St. David's Road, Carnarvon.

1885. Head, Archibald Potter, Messrs. Jeremiah Head and Son, 47 Victoria Street, Westminster, S.W. [*Principium, London. Westminster 237.*]; and Queen's Square, Middlesbrough.

1888. Head, Harold Ellershaw, 23 Rugby Mansions, Addison Bridge, London, W.

1857. Healey, Edward Charles, 33 Norfolk Street, Strand, London, W.C.

1890. Heap, Ray Douglas Theodore, 21 Lee Park, Blackheath, London, S.E.

1872. Heap, William, 28 Chapel Street, Liverpool. [*Metal, Liverpool.* Central 809.]

1898. Hearson, Hugh Reginald, 1 The Bund, Shanghai, China.

1898. Heath, Ashton Marler, Office of the Crown Agents for the Colonies, Downing Street, London, S.W.

1899. Heath, Elijah Arthur, Messrs. Dick, Kerr and Co., 110 Cannon Street, London, E.C.

1889. Heath, George Wilson, Messrs. Heath and Co., Observatory Works, Crayford, Kent.

1888. Heatly, Harry, Messrs. Heatly and Gresham, 110 Cannon Street, London, E.C.; and Ballygunge, West Hill Road, Wandsworth, London, S.W.

1897. Heaton, Charles, Brades Steel Works, near Birmingham. [*Brades, Birmingham.*]

1897. Heaton, George, Brades Steel Works, near Birmingham. [*Brades, Birmingham.*] (Former Member 1860-1869.)

1899. Hedley, Robert, Works Manager, Tudhoe Iron Works, Spennymoor.

1875. Heenan, Hammersley, Messrs. Heenan and Froude, Newton Heath Iron Works, near Manchester; and The Manor House, Wilmslow, near Manchester. [*Spherical, Newton Heath.* 966 A.]

1895. Heinke, Edwin Harry Alfred, Locomotive Superintendent, Ferro Carril Mexicano, Orizaba, Mexico : (or care of Miss F. Heinke, The College, Stoke Bishop, near Bristol.)

1879. Hele-Shaw, Henry Selby, LL.D., F.R.S., Professor of Engineering, University College, Liverpool.

1901. Helme, Edward Tyas, Low Moor Iron Works, near Bradford.

1888. Henning, Gustavus Charles, 521 W 142nd Street, New York, United States.

1879. Henriques, Cecil Quixam, Messrs. John H. Wilson and Co., 15 Victoria Street, Westminster, S.W. [*Drague, London.*]

1875. Hepburn, George, Redcross Chambers, Redcross Street, Liverpool. [*Hepburn, Liverpool.*]

1900. Hepworth, John William, Messrs. Alcock, Ashdown and Co., Bombay, India.

1892. Herbert, Alfred, Machine-Tool Works, Coventry. [*Lathe, Coventry.* 52.]

1893. Herbert, Charles, 35 Queen Victoria Street, London, E.C. [*Mancunian, London.*]

1893. Herbert, George Henry, Messrs. Richard Hornsby and Sons, 75A Queen Victoria Street, London, E.C.

1894. Herman, Benjamin Richard, Messrs. B. R. Herman and Co., McLeod Road, Karachi, India. [*Herman, Karachi.* 47.]

1884. Hernu, Arthur Henry, 69 Victoria Street, Westminster, S.W.

1894. Herriot, William Scott, Chief Engineer, Calico Printers' Association, 56 Mosley Street, Manchester.

1884. Hervey, Matthew Wilson, Assistant Engineer, West Middlesex Water Works, Hammersmith, London, W.

1879. Hesketh, Everard, Messrs. J. and E. Hall, Iron Works, Dartford. [*Hesketh, Dartford.*]

1897. Hetherington, Edward Palmer, Messrs. John Hetherington and Sons, Vulcan Works, Pollard Street, Manchester.

1872. Hewlott, Alfred, Haseley Manor, Warwick.

1885. Hicken, Thomas, 302 Calle Balcarce, Buenos Aires, Argentine Republic : (or care of Miss Hicken, Bourton, near Rugby.)

1896. Higby, Robert George, Sitarampur, Bengal, India.

1894. Higginbottom, Lloyd, Messrs. Higginbottom and Mannock, Crown Iron Works, West Gorton, Manchester.

1879. Higson, Jacob, Crown Buildings, 18 Booth Street, Manchester.

1901. Hill, Alfred John, Manager, Locomotive, Carriage and Wagon Works, Great Eastern Railway, Stratford, London, E.

1883. Hill, John Kershaw, Engineer and Manager, West Surrey Water Works, High Street, Walton-on-Thames.

1885. Hill, Robert Anderson, 14 Third Avenue, Hove, Sussex.

1900. Hill, Walter Scott, Engineer R.N., care of Walter Hill, Rosebank, Peterborough.

1890. Hiller, Edward George, Chief Engineer, National Boiler Insurance Co., 22 St. Ann's Square, Manchester.

1882. Hiller, Henry, Consulting Engineer, National Boiler Insurance Co., 22 St. Ann's Square, Manchester; and Athelney, Stanley Road, Alexandra Park, Manchester.

1899. Hiller, Henry King, Engineer, Gas Company, Shanghai, China.

1878. Hilton, Franklin, 45 Talbot Street, Southport.

1898. Hipkins, William Edward, Managing Director, Messrs. James Watt and Co., Soho Foundry, Smethwick, Birmingham.

1897. Hiraoka, Hiroshi, Hiraoka Engineering Works, Honjo, Tokyo, Japan. [*Herocar, Tokyo.*]

1897. Hirat, James, Chief Engineer, Mount Morgan Gold Mining Co., Mount Morgan, Queensland.

1896. Hitchcock, Cyril, District Locomotive Superintendent, North Western Railway, Rawal Pindi, Punjab, India.

1898. Hobbs, Charles James, Hydraulic Engineering Co., 9 Bridge Street, Westminster, S.W.

1900. Hobson, John Edward, Engine and Boiler Insurance Co., 12 King Street, Manchester.

1891. Hodge, Arthur, Institution of Mining and Metallurgy, Broad Street House, London, E.C.

1891. Hodges, Frank Grattidge, Locomotive Department, Midland Railway, Burton-on-Trent.

1897. Hodges, Frank William, Vauxhall Iron Works, Wandsworth Road, London, S.W.; and Rushmore, Corkran Road, Surbiton.

1896. Hodges, Marcus Henry, Messrs. Hodges Brothers, City Basin Iron Works, Exeter.

1870. Hodges, Petronius, Messrs. Charles Cammell and Co., Cyclops Steel and Iron Works, Sheffield.

1880. Hodgson, Charles, Messrs. Saxby and Farmer, Railway Signal Works, Canterbury Road, Kilburn, London, N.W. [*Signalmen, London. Kilburn 421.*]

1889. Hodgson, George Herbert, Thornton Road, Bradford.

1899. Hodgson, Henry, Messrs. Scott and Hodgson, Guide Bridge Iron Works, Guide Bridge, near Manchester. [*Engines, Hooley Hill. 67.*]

1892. Hodgson, Henry Edwin, Brookhouse Iron Works, Cleckheaton, S.O., Yorkshire.

1900. Hodgson, William, Messrs. Hodgson and Stead, Egerton Iron Works, Windsor Street, Salford, Manchester. [*Weighing, Manchester. 1461.*]

1891. Hogarth, Thomas Oswald, Great Western Railway Works, Swindon.

1889. Hoggins, Alfred Farquharson, Brush Electrical Engineering Co., 49 Queen Victoria Street, London, E.C.

1866. Holcroft, Thomas, Bilston Foundry, Bilston.

1886. Holden, James, Locomotive Superintendent, Great Eastern Railway, Stratford Works, London, E.

1899. Holden, Robert, Superintendent Mechanical Engineer, County Borough of West Ham, London, E.; and Birnell House, Canning Town, London, E.

1895. Holgate, Charles Henzell, School Close Works, Leeds.

1895. Holliday, John, Messrs. A. Guinness, Son and Co., St. James' Gate Brewery, Dublin.

1885. Hollis, Henry William, Fairfield, Darlington.

1896. Holman, Frederick, Messrs. N. Holman and Sons, Penzance Foundry, Penzance.

1891. Holman, Hugh Wilson, Messrs. E.J. Caiger and Co., 92 Billiter Buildings, Billiter Street, London, E.C. [*Caiger, London.*]

1899. Holmes, John Henry, Portland Road, Newcastle-on-Tyne; and Wellburn, Jesmond, Newcastle-on-Tyne.

1896. Holmes, Percy Frederick, Messrs. W. C. Holmes and Co., Whitestone Iron Works and Turnbridge Foundries, Huddersfield. [*Holmes, Huddersfield. 113.*]

1892. Holmström, Carl Albert, Messrs. W. Beardmore and Co., Parkhead Forge and Steel Works, Glasgow.

1883. Holroyd, John, Arncliffe, Downs Road, Luton.

1873. Holt, Henry Percy, 15 Kensington Court, London, W.

1888. Homan, Harold, Messrs. Homan and Rodgers, 10 Marsden Street, Manchester. [*Namoh, Manchester.* 637.]

1895. Homfray, Samuel George, Sir W. G. Armstrong, Whitworth and Co., 8 Great George Street, Westminster, S.W.

1890. Hooker, Benjamin, Pear Tree Court, Farringdon Road, London, E.C.

1892. Hope, John Basil, Assistant Locomotive Superintendent, Midland Great Western Railway, Dublin.

1885. Hopkinson, Charles, Werneth Chambers, 29 Princess Street, Manchester.

1894. Hopkinson, Edward, D.Sc., Messrs. Mather and Platt, Salford Iron Works, Manchester.

1856. Hopkinson, John, Inglewood, St. Margaret's Road, Bowdon, near Altringham.

1877. Hopkinson, Joseph, Messrs. Joseph Hopkinson and Co., Britannia Works, Huddersfield.

1890. Hopper, Allan, Messrs. William Hopper and Co., Moscow, Russia.

1890. Hopper, James Russell, Messrs. William Hopper and Co., Moscow, Russia.

1889. Hopwood, John, Locomotive Superintendent, Argentine Great Western Railway, Mendoza, Argentine Republic.

1895. Horner, John, Clonard Foundry, Belfast.

1880. Hornsby, James, Messrs. Richard Hornsby and Sons, Spittlegate Iron Works, Grantham. [*Hornsby, Grantham.*]

1891. Horsfield, Ralph, Messrs. Ralph Horsfield and Co., Bredbury, Woodley, Stockport.

1873. Horsley, Charles, 22 Wharf Road, City Road, London, N.

1892. Horsnell, Daniel, 79 Farringdon Road, London, E.C.

1868. Horton, Enoch, Alma Works, Darlaston, near Wednesbury.

1886. Hosgood, John Howell, Locomotive and Hydraulic Superintendent, Barry Dock and Railways, Barry, near Cardiff.

1899. Hosgood, Octavius Sidney, London and South Wales Engineering Co., Barry Dock, Barry, near Cardiff. [*Bars, Barry.* 41.]

1891. Hosgood, Walter James, Locomotive Department, Port Talbot Railway and Docks, Port Talbot.

1889. Hosken, Richard, Fern Villa, Durban, Natal: (or care of J. Hosken, 27 Mincing Lane, London, E.C.)

1866. Houghton, John Campbell Arthur, Sparnon, Torquay.

1898. Houghton, Reginald James, Electrical Copper Co., Ditton Road, Widnes; and Sunnyside, Hough Green, near Widnes.

1889. Houghton, Thomas Harry, 63 Pitt Street, Sydney, New South Wales: (or care of Messrs. James Simpson and Co., 101 Grosvenor Road, Pimlico, London, S.W.) [*Expansion, Sydney.*]

1887. Houghton-Brown, Ernest, Messrs. Houghton-Brown Brothers, Kingsbury Iron Works, Ballpond, London, N.

1896. House, Henry Alonzo, Bridgeport, Connecticut, United States.

1895. House, Henry Alonzo, Jun., Manager, Liquid Fuel Engineering Co., Columbine Ship Yard, East Cowes, Isle of Wight.

1891. How, William Field, Mutual Life Buildings, George Street, Sydney, New South Wales. [*Alaska, Sydney.*]

1864. Howard, Eliot, Messrs. Hayward Tyler and Co., 90 Whitecross Street, London, E.C.

1897. Howard, Henry Fox, Messrs. Hayward, Tyler and Co., 90 Whitecross Street, London, E.C.

1879. Howard, James Harold, Britannia Iron Works, Bedford; and The Grange, Kempston, Bedford.

1882. Howard, John William, Gloucester Wagon Works, Gloucester.

1896. Howarth, Alfred Montgomery, Railway Construction Department, Public Works Office, Sydney, New South Wales.

1885. Howarth, William, Manager, Oldham Boiler Works, Oldham. [*Boilers, Oldham.*]

1861. Howell, Joseph Bennett, Messrs. Howell and Co., Brook Steel Works, Brookhill, Sheffield [*Howell, Sheffield.*]; and The Tower, Hathersage, near Sheffield.

1877. Howell, Samuel Earnshaw, Messrs. Howell and Co., Brook Steel Works, Brookhill, Sheffield. [*Howell, Sheffield.*]

1892. Howitt, James John, Messrs. Bowman Thompson and Co., Lostock Gralam, Northwich.

1882. Howl, Edmund, Messrs. Lee Howl and Co., Tipton. [*Howl, Tipton.*]

1877. Howlett, Francis, Messrs. Henry Clayton Son and Howlett, Atlas Works, Woodfield Road, Harrow Road, London, W. [*Brickpress, London.*]

1891. Hoy, Henry Albert, Chief Mechanical Engineer, Lancashire and Yorkshire Railway, Horwich, near Bolton.

1887. Hoyle, James Rossiter, Messrs. Thomas Firth and Sons, Norfolk Works, Sheffield.

1891. Hubback, Charles Arbuthnot, Locomotive and Rolling Stock Superintendent, Natal and Nova Cruz Brazilian Railway, Natal, Rio Grande do Norte, Brazil.

1898. Hudson, Francis James, District Locomotive Superintendent, Midland Railway, Gorton, Manchester; and Earnock, Marple, Stockport.

1882. Hudson, John George, Messrs. Hick Hargreaves and Co., Soho Iron Works, Crook Street, Bolton; and Glenholme, Bromley Cross, Bolton.

1884. Hudson, Robert, Gildersome Foundry, near Leeds [*Gildersome, Leeds. Central 14.*]; and Weetwood Mount, Headingley, near Leeds. [Headingley 4.]

1893. Hudson, William, Ahmedabad, Bombay, India; and 1 Cranworth Street, Stalybridge.

1881. Hughes, Edward William Mackenzie, Managing Director, Hughes' Solid Rolled Axle-Box Co., 53 Victoria Street, Westminster, S.W.; and 1 The Terrace, Thurlow Park Road, West Norwood, London, S.E. [Sirhind, London.]

1899. Hughes, George, Locomotive Department, Lancashire and Yorkshire Railway, Horwich, near Bolton.

1867. Hughes, George Douglas, Leen Side Works, Nottingham.

1889. Hughes, John, Messrs. Hughes and Lancaster, 47 Victoria Street, Westminster, S.W.

1891. Hughes, Robert M., Bengal-Nagpur Railway, Cuttack, Bengal, India: (or care of Reginald D. Hughes, 69 Cromford Road, West Hill, London, [S.W.])

1900. Hughes, Thomas William Robert, 59 Catford Hill, London, S.E.

1897. Hulse, Richard Lamplough, The Grove, Withington, Manchester.

1899. Humphrey, Herbert Alfred, Messrs. Brunner, Mond and Co., Northwich.

1900. Humphreys, Henry Howard, Messrs. Trant Brown and Humphreys, 332 High Road, Kilburn, London, N.W.

1866. Humphrys, Robert Harry, Messrs. Humphrys Tennant and Co., Deptford Pier, London, S.E.

1894. Humpidge, James Dickerson, Messrs. Humpidge, Holborow and Co., Dudbridge Iron Works, Stroud, Gloucestershire [*Humpidge, Cainscross.*]; and Southfields House, Woodchester, Stroud, Gloucestershire.

1898. Hunt, Robert Woolston, 1137 The Rookery, Chicago, Illinois, United States.

1901. Hunt, William, Messrs. Hunt, Sons and Bright, 10 Low Pavement, Nottingham.

1889. Hunter, Charles Lafayette, Engineer, Bute Docks, Cardiff.

1899. Hunter, George Lewis, Cardiff Railway Co., Tyndall Street, Cardiff.

1886. Hunter, John, Messrs. Campbells and Hunter, Dolphin Foundry, Saynor Road, Hunslet, Leeds.

1877. Hunter, Walter, 17 Victoria Street, Westminster, S.W. [Westminster 75.]

1900. Hurst, Isaac Edwin, Fleet Engineer R.N., H.M.S. "Illustrious," Mediterranean Squadron.

1899. Hutson, Charles Alfred, Messrs. C. A. Hutson and Co., Ceylon Engineering Works, Colombo, Ceylon.

1888. Huxley, George, 20 Mount Street, Manchester.

1894. Hyde, George Herbert (*Life Member*), Government Factory, Colombo, Ceylon.

1885. Hyland, John Frank, Railway Contractor, São Carlos do Pinhal, Estado de São Paulo, Brazil: (or care of Messrs. Lewis and Hyland, New Rents, Ashford, Kent.)

1900. Iddon, James, Brookfield Iron Works, Leyland, near Preston.

1896. Iden, George, Motor Mills, Coventry.

1877. Imray, John, Messrs. Abel and Imray, Birkbeck Bank Chambers, Southampton Buildings, London, W.C.

1882. Ingham, William, 11 Blackfriars Street, Manchester. [4626.]

1895. Ingham, William, Water Engineer, Torquay.

1888. Ingleby, Joseph, 20 Mount Street, Manchester.

1883. Instone, Thomas, 146 Leadenhall House, Leadenhall Street, London, E.C.

1894. Irons, Charles Risbec, 145 Cannon Street, London, E.C.

1892. Irons, Thomas, Messrs. Hudson Brothers, Clyde Engineering Works, Granville, New South Wales.

1898. Irwin, Delacherois Hastings, Managing Director, Messrs. Crossley Brothers, Openshaw, Manchester. [*Crossleys, Openshaw.*]

1895. Isaac, Robert, Messrs. Owen, Isaac and Owen, Union Iron Works, Portmadoc. [*Isaac, Portmadoc.*]

1887. Ivatt, Henry Alfred, Locomotive Engineer, Great Northern Railway, Doncaster.

1884. Jacks, Thomas William Moseley, Patent Shaft Works, Wednesbury; and Hill Side, Brunswick Terrace, Wednesbury.

1898. Jackson, Algernon Brooker, 16 Great Tower Street, London, E.C.

1899. Jackson, Sir John, F.R.S.E., 53 Victoria Street, Westminster, S.W. [*Cofferdam, London.*]

1895. Jackson, Robert Cattley, 4 Framlington Place, Newcastle-on-Tyne.

1886. Jackson, Thomas, Woodlands View, Horsforth, near Leeds.

1889. Jackson, William, Thorn Grove, Mannofield, Aberdeen.

1876. Jacobs, Charles Mattathias, 88 Bishopsgate Street Within, London, E.C. [*Vexillum, London.*]

1878. Jakeman, Christopher John Wallace, Manager, Messrs. Merryweather and Sons, Tram Locomotive Works, Greenwich Road, London, S.E.

1893. James, Arthur William, Calcutta Landing and Shipping Co., 24 Strand Road, Calcutta, India.

1900. James, Charles, Jun., Messrs. Richard Hornsby and Sons, Spittlegate Iron Works, Grantham.

1889. James, Charles William, 8 Ardgowan Road, Catford, London, S.E.

1895. James, Christopher William, Messrs. Joshua Buckton and Co., Well House Foundry Meadow Road, Leeds.

1895. James, Enoch, General Manager, Patent Shaft and Axletree Works, Wednesbury.

1899. James, Herbert Holland, care of Frank James, Silkmore Hall, Stafford.

1889. James, Reginald William, 1 Queen Victoria Street, London, E.C.

1899. James, Thomas, Carriage and Wagon Department, Midland Railway, Derby.

1879. Jameson, George, Messrs. John Jameson and Son, Bow Street Distillery, Dublin.

1881. Jameson, John, Messrs. Jameson and Schaeffer, 2 Akenside Hill, Newcastle-on-Tyne. [*Jameson, Newcastle-on-Tyne. P.O. 226.*]

1888. Jaques, Captain William Henry, Tremont Building, Boston, Mass., United States.

1888. Jeejeebhoy, Piroshaw Bomanjee, 17 Church Street, Bombay, India.

1881. Jefferiss, Thomas, Messrs. Tangyes, Cornwall Works, Soho, near Birmingham. [*Tangyes, Birmingham.*]

1877. Jeffreys, Edward Homer, Hawkhills, Chapel Allerton, Leeds.

1901. Jenkin, Bernard Maxwell, 17 Victoria Street, Westminster, S.W. [*Kinematic, London.*]

1893. Jenkin, Charles Frewen, 4 Vanbrugh Park Road West, Blackheath, London, S.E.

1894. Jenkin, Thomas Henry, Messrs. J. Jamieson and Co., Queen's Dock Chambers, Hull. [*Propeller, Hull. 94.*]

1880. Jenkins, Rhys, Patent Office, 25 Southampton Buildings, London, W.C.

1892. Jenkins, William John, Messrs. W. J. Jenkins and Co., Beehive Works, Retford.

1896. Jenkinson, Thomas, Messrs. Pilkington Brothers, Plate Glass Works, St. Helens, Lancashire.

1893. Jennings, Henry Horwood, Messrs. Edwin Oldroyd and Co., Crown Works, Leeds. [*Calorifics, Leeds. Central 241.*]

1878. Jensen, Peter, 77 Chancery Lane, London, W.C. [*Venture, London.*]

1889. Jessop, George, Messrs. Jessop and Appleby Brothers, London Steam-Crane and Engine Works, Leicester. [*Jessop, Leicester.*]

1896. Johnson, Andrew, 120 Nithsdale Road, Glasgow.

1890. Johnson, John William, care of Baron L. Knoop, Maison de la Banque des Marchands, Ilyinka, Moscow, Russia.

1891. Johnson, Lacey Robert, Master Mechanic, Pacific Division, Canadian Pacific Railway, Vancouver, British Columbia.

1888. Johnson, Lawrence Potter, Insein, Lower Burma: (or 9 Blackheath Rise, Lewisham, London, S.E.)

1882. Johnson, Samuel, Manager, Globe Cotton and Woollen Machine Works, Rochdale; and Glebelands, Rochdale.

1861. Johnson, Samuel Waite, Locomotive Superintendent, Midland Railway, Derby.

1888. Johnson, William, Castleton Foundry and Engineering Works, Armley Road, Leeds.

1896. Johnston, James, Chief Engineer, Brighton Corporation Water Works, 12 Bond Street, Brighton. [140.]

1895. Johnstone, Captain James Henry L'Estrange, R.E. (*Life Member*), Horse Guards, Whitehall, London, S.W.

1882. Jolin, Philip, 25 Temple Street, Bristol.

1891. Jones, Charles Frederick, 85 Davenport Street, Bolton.

1871. Jones, Charles Henry, Assistant Locomotive Superintendent, Midland Railway, Derby.

1873. Jones, Edward, Broomfield House, Perry Barr, Birmingham.

1884. Jones, Felix, Messrs. Jones and Foster, 39 Bloomsbury Street, Birmingham.

1878. Jones, Frederick Robert, Superintending Engineer, Sirmoor State, Nahān, near Umballa, Punjaub, India: (or care of Messrs. Richard W. Jones and Co., Newport, Monmouthshire.)

1867. Jones, George Edward, Eastern Bengal Railway, Kanchrapara, Bengal, India.

1878. Jones, Harry Edward, Engineer, Commercial Gas Works, Stepney, London, E.

1881. Jones, Herbert Edward, Locomotive, Carriage and Wagon Superintendent, Cambrian Railways, Oswestry.

1890. Jones, Morlais Glasfryn, 6 Delahay Street, Westminster, S.W.

1882. Jones, Samuel Gilbert, Hatherley Court, Gloucester.

1887. Jones, Thomas, Central Board School, Deansgate, Manchester; and 4 Manley Road, Alexandra Park, Manchester.

1900. Jones, Walter, Titan Works, Stourbridge.

1872. Jones, William Richard Sumption, Whitehall Court, London, S.W.

1883. Jordan, Edward, Manager, Cardiff Junction Dry Dock and Engineering Works, Cardiff.

1891. Jordan, Henry George, Jun., Municipal Technical School, Princess Street, Manchester; and 6 Manley Road, Whalley Range, Manchester.

1880. Joy, David, 85 Gracechurch Street, London, E.C.; and 118 Broadhurst Gardens, West Hampstead, London, N.W. (Former Member 1853-1867.)

1891. Judd, Joseph Henry, School Board Offices, Manchester.

1878. Jüngermann, Carl, 9 Nettelbeck Strasse, Berlin, W., Germany.

1884. Justice, Howard Rudolph, 55 and 56 Chancery Lane, London, W.C  
[*Syng, London.* Holborn 3.]

1888. Kapteyn, Albert, Westinghouse Brake Co., Canal Road, York Road King's Cross, London, N.

1899. Kay, George, Queen's Road, Nottingham. [*Kay, Nottingham.* 855.]

1869. Keen, Arthur, London Works, near Birmingham. [*Globe, Birmingham.*]

1883. Keen, Francis Watkins, Patent Nut and Bolt Works, Westbromwich.

1899. Kekewich, George Ormond, Middlesex County Council, Guildhall, Westminster, S.W. [Westminster 218.]

1881. Kendal, Ramsey, Locomotive Department, North Eastern Railway, Darlington.

1879. Kennedy, Professor Alexander Blackie William, LL.D., F.R.S., 17 Victoria Street, Westminster, S.W. [*Kinematic, London.*]

1892. Kennedy, Thomas, The Glenfield Engineering Works, Kilmarnock.

1875. Kenrick, George Hamilton, Messrs. A. Kenrick and Sons, Spon Lane, West Bromwich; and Whetstone, Somerset Road, Edgbaston, Birmingham.

1892. Kensington, Frederick, 2 Copthall Buildings, London, E.C.

1896. Kerr, Alfred Ernest Campbell (*Life Member*), 161 Dana Street, Ballarat, Victoria.

1866. Kershaw, John, Villa Eugénie-Louise, Boulevard des Moulins, Monte Carlo.

1884. Kershaw, Thomas Edward, Chilvers Coton Foundry, Nuneaton.

1885. Keyworth, Thomas Egerton, Central Cuban Railways, Sagua la Grande, Cuba: (or care of J. R. H. Keyworth, 28 Grosvenor Road, Birkenhead.)

1885. Kidd, Hector, Colonial Sugar Refining Co., Sydney, New South Wales.

1894. Kiernan, George, Manager, Messrs. Gresham and Craven, Craven Iron Works, Salford, Manchester.

1888. Kikuchi, Kyozo, Superintendent Engineer, Hirano Spinning Mill, Osaka, Japan.

1899. Kilgour, Martin Hamilton, Borough Electrical Engineer, Electric Works Offices, 2 Church Street, Cheltenham.

1895. King, Charles Penrose, Resident Engineer, Welbeck Water Works Extension; 26 Newcastle Avenue, Worksop.

1900. King, Charles Philip, Works Manager, Messrs. Hayward Brothers and Eckstein, Union Iron Works, 187-193 Union Street, Borough, London, S.E.; and 67 Upper Richmond Road, Putney, London, S.W.

1897. King, Henry Charles, Great Western Railway Works, Swindon.

1899. King, John James, Foundry Department, Stanton Iron Works, near Nottingham.

1895. King, Thomas Scott, Messrs. Davey Paxman and Co., Standard Iron Works, Colchester.

1872. King, William, Engineer, Liverpool United Gas Works, Duke Street, Liverpool.

1893. Kinghorn, John Warden, care of Messrs. Jardine Matheson and Co., Hong Kong, China.

1877. Kirk, Henry, Messrs. Kirk Brothers and Co., New Yard Iron Works, Workington. [*Kirks, Workington.*]

1884. Kirkaldy, John, 101 Leadenhall Street, London, E.C. [*Compactum, London.*]

1899. Kirkaldy, William George, 99 Southwark Street, London, S.E. [Hop 203.]

1875. Kirkwood, James, care of Commissioner of Customs, Kowloon, Hong Kong, China: (or Grange Park, Prestwick, Ayrshire.)

1859. Kitson, Sir James, Bart., M.P., Monk Bridge Iron Works, Leeds.

1874. Klein, Thorvald, 6 Derby Villas, Forest Hill, London, S.E.

1889. Knap, Conrad, 11 Queen Victoria Street, London, E.C.

1886. Knight, Charles Albert, Babcock and Wilcox Co., 21 Bothwell Street, Glasgow.

1890. Knight, James Percy, Kaiser Steam Tug Co., 27 Great Tower Street, London, E.C. [*Longboat, London. Avenue 203.*]

1900. Knowles, John, Messrs. Bradbury, Brady and Co., Bombay, India.

1896. Kwang, Kwong Yung (*Life Member*), Linsi Colliery; care of the Chinese Engineering and Mining Co., Tientsin, North China.

1898. Lackland, John James, Water Engineer, Town Hall, St. Helens, Lancashire. [69.]

1881. Laing, Arthur, Deptford Shipbuilding Yard, Sunderland.

1883. Lake, William Robert, 45 Southampton Buildings, London, W.C. [*Scopo, London.*]

1897. Lambert, William Fraser, Messrs. G. S. Goodwin and Co., 19 James Street, Liverpool.

1896. Lane, Francis Lawrence, Works Manager, Leeds Forge, Leeds.

1881. Langdon, William, Percy House, Kensington, Bath.

1879. Lapage, Richard Herbert, Sheen House, Walmer. [*Lapage, Walmer.*]

1881. Lange, Frederick Montague Townshend, Parliament Mansions, Victoria Street, Westminster, S.W.

1888. Latham, Baldwin, Parliament Mansions, Victoria Street, Westminster, S.W.; and Duppas House, Old Town, Croydon.

1899. Latta, James Gilmore, 78 Billiter Buildings, London, E.C.

1890. Laurie, Leonard George, 15 Cardiff Road, Newport, Monmouthshire.

1867. Lawrence, Henry, 7 and 8 Post Office Chambers, Newcastle-on-Tyne.

1893. Lawrie, James, 113 Alma Road, Sheerness.

1874. Laws, William George, Borough Engineer and Town Surveyor, Town Hall, Newcastle-on-Tyne; and 65 Osborne Road, Newcastle-on-Tyne. [*Engineer, Newcastle-on-Tyne.*]

1882. Lawson, Frederick William, Messrs. Samuel Lawson and Sons, Hope Foundry, Leeds.

1870. Layborn, Daniel, Messrs. Daniel Layborn and Co., Dutton Street, Liverpool.

1883. Laycock, William S., Victoria Street Works, Sheffield; and Ranmoor, Sheffield. [*Invention, Sheffield.* 907.]

1860. Lea, Henry, Messrs. Henry Lea and Son, 38 Bennett's Hill, Birmingham. [*Engineer, Birmingham.* 113.]

1892. Lea, Richard Henry, Messrs. Lea and Francis, Coventry.

1895. Lea, William Arthur, Compañia de Ferrocarriles del Distrito, Departamento de Construccion, Mexico City, Mexico.

1889. Leaf, Henry Meredith, Burlington Lodge, Streatham Common, London, S.W.

1883. Leavitt, Erasmus Darwin, Jun., 604 Main Street, Cambridgeport, Massachusetts, United States.

1890. Ledingham, John Machray, Royal Laboratory, Royal Arsenal, Woolwich.

1887. Lee, Cuthbert Ridley, Messrs. C. R. Lee and Co., Suffolk House, Laurence Pountney Hill, London, E.C.

1862. Lee, J. C. Frank, 6 Great Winchester Street, London, E.C.

1892. Lee, Richard John, Messrs. Harrison, Lee and Sons, City Foundry, Limerick.

1890. Lee, Samuel Edward, Messrs. Harrison, Lee and Sons, City Foundry, Limerick.

1863. Lees, Samuel, Messrs. H. Lees and Sons, Park Bridge Iron Works, Ashton-under-Lyne.

1889. Legros, Lucien Alphonse, 57 Brook Green, Hammersmith, London, W.

1896. Leisse, George Charles, Messrs. John Fowler and Co., Steam Plough and Locomotive Works, Leeds.

1898. Leopard, Charles William, 52 Queen Victoria Street, London, E.C. [Bank 657.]

1878. Lewis, Gilbert, 22 Wilmslow Road, Withington, Manchester.

1895. Lewis, Herbert William, Acting Senior Inspector of Boilers, Custom House, Bombay, India.

1898. Lewis, Joseph Slater, F.R.S.E., Clifford Lodge, Crown Hill, Norwood, London, S.E.

1884. Lewis, Sir William Thomas, Bart., Bute Mineral Estate Office, Aberdare; and Mardy, Aberdare.

1894. Liebert, Henry Anton, Messrs. John Holroyd and Co., Perseverance Works, Milnrow, Rochdale.

1880. Lightfoot, Thomas Bell, Cornwall Buildings, 35 Queen Victoria Street, London, E.C. [*Separator, London.*]; and 7 Eastcombe Villas, Charlton Road, Blackheath, London, S.E.

1891. Lindsay, William Robertson, 7 Ward Road, Dundee.

1890. Lineham, Wilfrid James, Professor of Engineering and Mechanical Science, The Goldsmiths' Institute, New Cross, London, S.E.; and Jesmond, Leyland Road, Lee, London, S.E.

1856. Linn, Alexander Grainger, 121 Upper Parliament Street, Liverpool.

1876. Lishman, Thomas, Mining Engineer, Hetton Colliery, near Fence Houses.

1881. List, John, Superintendent Engineer, Messrs. Donald Currie and Co., Orchard Works, Blackwall, London, E.; and 3 St. John's Park, Blackheath, London, S.E.

1890. Lister, Robert Ramsbottom, Messrs. Beyer Peacock and Co., Gorton Foundry, Manchester.

1900. Little, Edwin, Fleet Engineer R.N., H.M.S. "Cæsar," Mediterranean Squadron.

1890. Livens, Frederick Howard, Messrs. Ruston Proctor and Co., Sheaf Iron Works, Lincoln.

1900. Liversedge, Henry Thomas, Chief Engineer R.N., The Cottage, Borstal Road, Rochester.

1895. Livingston, James, 30 Great St. Helen's, London, E.C. [*Cinematograph, London.*]

1886. Livsey, John Edward, 34 Octavia Street, Battersea, London, S.W.

1867. Lloyd, Charles, 78 Station Road, South Shore, Blackpool.

1854. Lloyd, George Braithwaite (*Life Member*), Edgbaston Grove, Birmingham.

1882. Lloyd, Robert Samuel, Messrs. Hayward Tyler and Co., 90 Whitecross Street, London, E.C.

1894. Lloyd, Sampson Zachary, Managing Director, Engineering Department, Messrs. Nettlefolds, Birmingham [*Nettlefolds, Birmingham.*]; and Areley Hall, Stourport.

1897. Loane, Samuel Joshua, Acting Chief Engineer, Madras Municipality, Municipal Office, Madras, India.

1900. Lobb, Christopher, Engineer, Messrs. W. Clowes and Sons, Duke Street, Stamford Street, London, S.E.

1898. Lobnitz, Fred, Messrs. Lobnitz and Co., Renfrew, near Paisley; and Clarence House, Renfrew, near Paisley.

1879. Lockhart, William Stronach, 67 Granville Park, Blackheath, London, S.E.

1890. Logan, John Walker, Messrs. Davey Paxman and Co., Standard Iron Works, Colchester; and P.O. Box 82, Cape Town, Cape Colony.

1883. Logan, Robert Patrick Tredennick, Engineer's Office, Great Northern Railway of Ireland, Dundalk.

1884. Longbottom, Luke, Locomotive Carriage and Wagon Superintendent, North Staffordshire Railway, Stoke-on-Trent.

1894. Longridge, Captain Cecil Clement, Swan House, Great Swan Alley, Copthall Avenue, London, E.C.

1880. Longridge, Michael, Chief Engineer, Engine and Boiler Insurance Co., 12 King Street, Manchester.

1856. Longridge, Robert Bewick, Managing Director, Engine and Boiler Insurance Co., 12 King Street, Manchester; and Yew Tree House, Tabley, near Knutsford.

1875. Longridge, Robert Charles, Kilrie, Knutford.

1901. Longdon, Henry Crofts, Managing Director, Messrs. W. Summerscales and Sons, Phoenix Foundry, Keighley. [*Phoenix, Keighley.* 92.]

1880. Longworth, Daniel, Messrs. Alcock, Ashdown and Co., Mazagon, Bombay, India.

1899. Lonnon, William, Fleet Engineer, R.N., H.M.S. "Agamemnon," Devonport.

1887. Lorrain, James Grieve, Norfolk House, Norfolk Street, London, W.C. [*Lorrain, London.*]

1898. Lotbinière, Captain Alain Chartier Joly de, R.E., Bangalore, Mysore, India.

1900. Lovell, Denis Ralph, Locomotive Superintendent, Alagoas Railway, Maceio, Brazil.

1888. Low, David Allan, Professor of Engineering, East London Technical College, People's Palace, Mile End Road, London, E.

1885. Low, Robert, Powis Lodge, Vicarage Park, Plumstead.

1884. Lowcock, Arthur, Cloverfield, Whitchurch, Shropshire.

1891. Lowdon, Thomas, Kingsland Crescent, Barry Docks, B.O., near Cardiff.

1873. Lucas, Arthur, 27 Bruton Street, New Bond Street, London, W.

1889. Lucy, Arthur John, Meadowcroft, Penn Road, Croydon.

1897. Lucy, Ernest Edward, Assistant Locomotive Superintendent, Great Western Railway, Stafford Road Works, Wolverhampton.

1886. Lucy, William Theodore, Locomotive Superintendent, North Western Railway, Bahia Blanca, Argentine Republic: (or Thornleigh, Woodstock Road, Oxford.)

1895. Lumsden, Thomas Templeton Mackie, Managing Director, Messrs. James Milne and Son, Milton House Works, Edinburgh.

1898. Lunt, Charles Thomas, Vanguard Cycle Co., Walsall. [*Vanguard, Walsall.* 6075.]

1877. Lupton, Arnold, Professor of Mining Engineering, Yorkshire College, Leeds; and 6 De Grey Road, Leeds. [*Arnold Lupton, Leeds.* Central 330.]

1897. Lupton, Hugh, Messrs. Hathorn, Davey and Co., Sun Foundry, Dewsbury Road, Leeds. [*Hathorn, Leeds.* Central 524.]

1887. Lupton, Kenneth, 6 Jesson Street, Coventry.

1900. Lupton, William Walter, Messrs. Joshua Buckton and Co., Well House Foundry, Meadow Road, Leeds; and Malton.

1889. Macallan, George, Debden House, Newport, Essex.

1892. Macbean, John James, Messrs. Howarth Erskine and Co., Singapore, Straits Settlements.

1888. Macbeth, John Bruce King, 44 Tamarind Lane, Bombay, India: (or care of Norman Macbeth, Heaton, Bolton.)

1883. Macbeth, Norman, Messrs. John and Edward Wood, Victoria Foundry, Bolton.

1884. MacCarthy, Samuel, Messrs. Lloyd and Lloyd, 90 Cannon Street, London, E.C.; and 18 Adelaide Road, Brockley, London, S.E.

1877. MacColl, Hector, Bloomfield, Belfast.

1897. MacDonald, David Johnstone, South St. Roque's Works, Dundee.  
[*Medalist, Dundee.* 239.]

1889. Macdonald, James Alexander, Broad Oaks Iron Works, Chesterfield.

1899. MacDonald, John, 146 West Regent Street, Glasgow. [*Consulting, Glasgow.* 298.]

1895. MacGarvey, Howard, Lombard Street Works, Dublin.

1892. Mackay, Charles O'Keefe, Locomotive Department, Lancashire and Yorkshire Railway, Horwich, near Bolton.

1890. Mackay, Joseph, Oriental Avenue, Bangkok, Siam: (or care of Messrs. Barr, Thomson and Co., Kilmarnock.) [*Mackay, Bangkok.*]

1885. MacKenzie, John William, Messrs. Wheatley and MacKenzie, 40 Chancery Lane, London, W.C.; and Oakamoor, Dartnell Park, Byfleet, Weybridge.

1875. Maclagan, Robert, Blantyre, British Central Africa: (or care of Dr. Maclagan, 9 Cadogan Place, Belgrave Square, London, S.W.)

1889. MacLay, Alexander, Professor of Mechanical Engineering, Glasgow and West of Scotland Technical College, 38 Bath Street, Glasgow.

1886. MacLean, Alexander Scott, Messrs. Alexander Scott and Sons, Sugar Refinery, Berry-yards, Greenock; and 31 Bank Street, Greenock.

1877. MacLellan, John A., Messrs. Alley and MacLellan, Sentinel Works, Polmadie Road, Glasgow. [*Alley, Glasgow.* Royal 673.]

1864. Macnab, Archibald Francis, Tokyo, Japan.

1884. Macpherson, Alexander Sinclair, Messrs. Fairbairn, Naylor, Macpherson and Co., Wellington Foundry, Leeds.

1901. MacQueen, John, Messrs. Yarrow and Co., Isle of Dogs, Poplar, London, E.

1892. Mactear, James, F.R.S.E., 28 Victoria Street, Westminster, S.W.  
[*Celestine, London.* Westminster 66.]

1879. Maginnis, James Porter, 9 Carteret Street, Queen Anne's Gate, Westminster, S.W. [*Offsett, London.*]

1891. Mahon, Major Reginald Henry, R.A., Simla, India.

1873. Mair-Rumley, John George (*Life Member*), 43 Palace Court, London, W.  
[*Ipsum, London.*]

1884. Mais, Henry Coathupe, 2 Prell's Buildings, Collins and Queen Streets, Melbourne, Victoria.

1898. Maitland, Cree, care of Messrs. John Cree, Jun., and Co., Royal Exchange Square, Glasgow.

1883. Malan, Ernest de Mérindol, Westinghouse Brake Co., York Road, King's Cross, London, N.

1879. Malcolm, Bowman, Locomotive Engineer, Belfast and Northern Counties Railway, Belfast.

1896. Malloch, William Farquhar, Town Office, Uitenhage, Cape Colony.

1891. Manisty, Edward, Dundalk Iron Works, Dundalk, Ireland; and 24A Bryanston Square, London, W.

1888. Mano, Bunji, Professor of Mechanical Engineering, Imperial University, Tokyo, Japan.

1900. Mansell, William Robert, Wrekin Foundry, Wellington, Shropshire.

1875. Mansergh, James, 5 Victoria Street, Westminster, S.W.

1894. Mansfield, Edwin, Messrs. Mansfield and Sons, Whitby Engineering Works, near Chester. [*Mansfield, Whitby, Chester.*]

1894. Mansfield, Edwin Albert, Messrs. Mansfield and Sons, Moorgate Station Chambers, London, E.C. [*Luminously, London.*]

1891. Manson, James, Locomotive Superintendent, Glasgow and South Western Railway, Kilmarnock.

1897. Mantle, Harry George, Old Level Iron Works, Brierley Hill. [*Hall, Brierley Hill. 12,005.*]

1893. Manton, Arthur Woodroffe, Chipping Sodbury, Gloucestershire.

1862. Mappin, Sir Frederick Thorpe, Bart., M.P., Messrs. Thomas Turton and Sons, Sheaf Works, Sheffield; and Thornbury, Sheffield.

1897. Mapplebeck, Edward, Messrs. John Wilkes, Sons and Mapplebeck, Liverpool Street, Birmingham. [*Wilkes, Birmingham.*]

1878. Marié, Georges, 4 Boulevard des Sablons, Neuilly-sur-Seine, France.

1900. Markham, Reginald Gascoigne Law, R.N., 17 Homefield Road, Chiswick, London, W.

1891. Marks, Edward Charles Robert, 13 Temple Street, Birmingham.

1888. Marks, George Croydon, 18 Southampton Buildings, Chancery Lane, London, W.C. [*Reconstruction, London.*]

1896. Markwick, Alfred Ernest, Superintendent of Machinery, Karachi Municipality, Lawrence Road, Karachi, India.

1884. Marquand, Augustus John, 2 Dock Chambers, Bute Docks, Cardiff. [*Martial, Cardiff.*]

1900. Marriner, William Wright, Messrs. Yarrow and Co., Isle of Dogs, Poplar, London, E.

1887. Marriott, William, Engineer and Locomotive Superintendent, Midland and Great Northern Joint Railways, Melton Constable, Norfolk.

1896. Marsh, Douglas Earle, Locomotive Department, Great Northern Railway Doncaster.

1900. Marshall, Alfred William, Messrs. Marshall and Woods, 2 Gray's Inn Road, London, W.C.

1865. Marshall, Francis Carr, Messrs. R. and W. Hawthorn Leslie and Co., St. Peter's Works, Newcastle-on-Tyne; and Akenside Lodge, Newcastle-on-Tyne.

1890. Marshall, Frank Herbert, Messrs. Wilsons, Pease and Co., Tees Iron Works, Middlesbrough.

1885. Marshall, Henry Dickenson, Messrs. Marshall, Sons and Co., Britannia Iron Works, Gainsborough. [*Marshalls, Gainsborough.* 10.]

1897. Marshall, Herbert John, Messrs. Marshall, Sons and Co., Britannia Iron Works, Gainsborough. [*Marshalls, Gainsborough.* 10.]

1871. Marshall, James, Messrs. Marshall, Sons and Co., Britannia Iron Works, Gainsborough. [*Marshalls, Gainsborough.* 10.]

1885. Marshall, Jenner Guest, Norwich Union Chambers, Birmingham; and Westcott Barton Manor, Oxfordshire.

1896. Marshall, Lewis, Messrs. Lumby, Son and Wood, West Grove Works, Halifax. [*Lumby, Halifax.* 5 A.]

1877. Marshall, William Bayley, Richmond Hill, Edgbaston, Birmingham. [*Augustus, Birmingham.*]

1847. Marshall, William Prime, Richmond Hill, Edgbaston, Birmingham. [*Augustus, Birmingham.*]

1899. Marsland, John Samuel, Messrs. Jonas Drake and Son, Ovenden, Halifax.

1859. Marten, Edward Bindon, Pedmore, Stourbridge. [*Marten, Stourbridge.* 8504.]

1881. Martin, Edward Pritchard (*Life Member*), Dowlais Iron Works, Dowlais.

1886. Martin, William Hamilton, Engineering Manager, The Scheldt Royal Shipbuilding and Engineering Works, Flushing, Holland.

1882. Martindale, Warine Ben Hay, 83 Cannon Street, London, E.C.; and Haistwell House, Sunningdale, Ascot.

1884. Massey, George, Post Office Chambers, Pitt Street, Sydney, New South Wales.

1890. Massey, Stephen, Messrs. B. and S. Massey, Openshaw, Manchester.

1893. Massey, William Henry, 25 Queen Anne's Gate, Westminster, S.W.; and Twyford, R.S.O., Berkshire.

1892. Masterton, John Fraser, Locomotive Department, South Eastern and Chatham Railway, Ashford, Kent.

1899. Mastrantonis, Panayotis, Engine and Boiler Works, Piraeus, Greece.

1894. Mather, George Radford, Messrs. G. R. Mather and Son, Albion Foundry, Wellingborough. [*Mather, Wellingborough.*]

1867. Mather, William, M.P., Messrs. Mather and Platt, Salford Iron Works, Manchester. [*Mather, Manchester.*]

1883. Mather, William Penn, Queen Dyeing Co., Providence, Rhode Island, United States.

1882. Matheson, Henry Cripps, Enfield, Sunny Gardens, Hendon, London, N.W.

1900. Mathews, Charles James, Chief Inspector of Boilers, Mines Department, Perth, Western Australia.

1891. Mathewson, Jeremiah Eugene, Tilghman's Sand-Blast Co., Broadheath, near Manchester.

1886. Matthews, Robert, Parrs House, Heaton Mersey, near Manchester.

1895. Matthews, Thomas, Imperial Iron Works, Belvedere Street, Withington Street, Pendleton, Manchester. [*Artesian, Manchester.* 1826.]

1893. Maunsell, Richard Edward Lloyd, Assistant Locomotive Engineer, Great Southern and Western Railway, Inchicore Works, near Dublin.

1873. Maw, William Henry, 35 Bedford Street, Strand, London, W.C. [Gerrard 3663.]

1884. Maxim, Sir Hiram Stevens, Messrs. Vickers, Sons and Maxim, 32 Victoria Street, Westminster, S.W.; and 18 Queen's Gate Place, South Kensington, London, S.W.

1859. Maylor, William, Hanley Grange, Hanley Castle, Worcestershire.

1874. McClean, Frank, Norfolk House, Norfolk Street, Strand, London, W.C.

1898. McCowen, Victor A. H., City Electrical Engineer, Town Hall, Belfast.

1891. McCredie, Arthur Latimer, Mutual Life of New York Buildings, Martin Place, Sydney, New South Wales. [*Ebony, Sydney.* 63.]

1892. McDonald, John, 99 Cedar Gardens, Putney, London, S.W.

1878. McDonald, John Alexander, Assistant Engineer-in-chief, Public Works Department, Perth, Western Australia: (or care of James E. McDonald, 4 Chapel Street, Cripplegate, London, E.C.)

1865. McDonnell, Alexander, 23 Denbigh Street, London, S.W.; and Rydens, Hersham Road, Walton-on-Thames.

1891. McFarlane, George, Sun Insurance Buildings, 121 West George Street, Glasgow. [*Dunsloy, Glasgow.* Royal 3777.]

1895. McFarlane, James, 27 Spring Gardens, Abbeyhill, Edinburgh.

1895. McGee, Walter, Albion Works, Stoney Brae, Paisley. [137.]

1897. McGlashan, William, Chief Mechanical Engineer, Foundry and Shell Factory, Cossipore, Calcutta, India.

1899. McInnes, David Whitton, Messrs. Hayward Brothers and Eckstein, Union Iron Works, Union Street, Borough, London, S.E. [*Hayward Brothers. London.* Hop 193.]

1889. McIntyre, John Henry A., Lecturer on Mechanical Engineering, Allan Glen's School, Glasgow.

1880. McLachlan, John, Messrs. Bow, McLachlan and Co., Thistle Engine Works, Paisley. [*Bow, Paisley.*]

1888. McLaren, Henry, Messrs. J. and H. McLaren, Midland Engine Works, Leeds.

1882. McLaren, Raynes Lauder, 10 Lammas Park Gardens, Ealing, London, W.

1899. McLaren, Richard Andrew, Babcock and Wilcox Co., Renfrew, R.S.O., Renfrewshire.

1888. McLarty, Farquhar Matheson, 26 Brougham Street, Greenock. [*Unique, Greenock.*]

1885. McNeil, John, Messrs. Aitken, McNeil and Co., Helen Street, Govan, Glasgow [*Colonial, Glasgow.*]; and Rosario, Dalkeith Avenue, Dumbreck, Glasgow.

1896. McPherson, Stewart, Manager, Barnagore Jute Works, Calcutta, India.

1891. Meade, Thomas de Courcy, Town Hall, Manchester.

1899. Meaden, Nicholas, R.N., Danbury, Alexandra Road, Reading.

1882. Meats, John Tempest, Mason Machine Works, Taunton, Massachusetts, United States.

1898. Meek, John, The Limes, Middleborough Road, Coventry.

1881. Meik, Charles Scott, care of P. Walter Meik, 16 Victoria Street, Westminster, S.W.

1887. Melhuish, Frederick, Assistant Engineer, Southwark and Vauxhall Water Works, Southwark Bridge Road, London, S.E.

1891. Melville, William Charles, Superintendent Engineer, Liverpool Steam Tug Co., 44 Chapel Street, Liverpool.

1888. Melville, William Wilkie, 42 Carden Road, Peckham, London, S.E.

1900. Mendham, Conrad Field, 4 East India Avenue, London, E.C. [*Pyrotic, London.* Avenue 887.]

1897. Mendizabal, Carlos, General Manager, Altos Hornos Iron and Steel Works, Bilbao, Spain.

1878. Menier, Henri, 56 Rue de Châteaudun, Paris.

1897. Meredith, John, Manager, Auto Machinery Co., Read Street, Coventry. [*Auto, Coventry.* 153.]

1901. Meriton, Thomas Henry Rudolph, Engineer, Charlaw Collieries, Sacriston, Durham.

1894. Merrick, Robert, Warren's Place Iron Works, Cork.

1896. Merrifield, Leonard Lancaster, 19 Abingdon Street, Westminster, S.W.

1875. Merryweather, James Compton, Messrs. Merryweather and Sons, Fire-Engine Works, Greenwich Road, London, S.E.; and 4 Whitehall Court, London, S.W. [*Merryweather, London.*]

1891. Metcalfe, Frederick Spencer, Pumping Station, Sewage Works, Burton-on-Trent.

1881. Meysey-Thompson, Arthur Herbert, Messrs. Hathorn Davey and Co., Sun Foundry, Dewsbury Road, Leeds.

1877. Michele, Vitale Domenico de, 8 Queen Anne's Gate, Westminster, S.W.; and Higham Hall, Rochester.

1898. Micklewright, William, Works Manager, Messrs. John Russell and Co., Alma Tube Works, Walsall.

1884. Middleton, Reginald Empson, 17 Victoria Street, Westminster, S.W.

1891. Middleton, Robert, Sheepscar Foundry, Leeds.

1891. Middleton, Robert Thomas, Superintendent of Bridge Works, Bombay, Baroda and Central India Railway, Bombay, India.

1862. Miers, Francois C., Messrs. Fry Miers and Co., Suffolk House, 5 Laurence Pountney Hill, London, E.C.; and Eden Cottage, South Eden Park, Beckenham. [*Foundation, London.* Bank 920.]

1874. Milburn, John, Hawkshead Foundry, Quay Side, Workington.

1893. Millar, Jackson, Messrs. Riley Hargreaves and Co., 11 Merchant Road, Singapore, Straits Settlements: (or care of David Dunlop, 93 Hope Street, Glasgow.)

1889. Miller, Adam, Avondale Lodge, Bull Wood, Dunoon, Argyllshire.

1885. Miller, Harry William, care of Messrs. James Brister and Co., Port Elizabeth, Cape Colony.

1886. Miller, John Smith, Messrs. Smith Brothers and Co., Hyson Green Works, Nottingham.

1887. Miller, Thomas Lodwick, 7 Tower Buildings N., Water Street, Liverpool.

1893. Milligan, William Scott, Messrs. Pollit and Wigzell, Bank Foundry Sowerby Bridge.

1893. Millington, Frederick Handel, Manager, Patent Pulp Manufacturing Co., Thetford; and Mill House, Thetford.

1885. Millis, Charles Thomas, Principal, Educational Department, Borough Road Polytechnic, London, S.E.

1898. Mills, George Pilkington, Works Manager, Raleigh Cycle Works, Lenton, Nottingham; and The Woodlands, Beeston, Nottingham.

1898. Mills, Richard, Locomotive Department, Midland Railway, Derby; and 9 Wilson Street, Derby.

1897. Mills, William, Atlas Works, Bonner's Field, Sunderland. [*Engineer, Sunderland.* 552.]

1899. Mills, William, Throstle Nest, Trafford Road, Manchester.

1887. Milne, William, Castle Buildings, West Street, Durban, Natal [*Metallic, Durban*]; and The Oaks, 52 Queen Street, Durban, Natal.

1898. Mitchell, George, Manager, Vacuum Brake Co., 32 Queen Victoria Street, London, E.C. [*Solution, London.* Bank 5534.]

1892. Mitcheson, George Arthur, Longton, Staffordshire. [*Mitcheson, Longton.* 4045.]

1899. Mitton, Edward Moss, Jun., Messrs. Ewen and Mitton, Smithfield Works, Sherlock Street, Birmingham. [*Method, Birmingham.*]

1897. Miyabara, Constructor Captain Jiro, Naval Department, Tokyo, Japan.

1870. Moberly, Charles Henry, 33 Bennett Park, Blackheath, London, S.E.

1896. Moffatt, Alexander Charles, Messrs. Moffatt and Eastmead, 39 Victoria Street, Westminster, S.W. [*Hoistway, London.*]

1898. Molecey, Charles Simpson Twigge, Chief Engineer, Colonial Consignment and Distributing Co., Nelson's Wharf, Commercial Road, Lambeth, London, S.E.

1879. Molesworth, Sir Guilford Lindsay, K.C.I.E., The Manor House, Bexley, S.O., Kent.

1881. Molinos, Léon, 48 Rue de Provence, Paris.

1899. Molloy, Harry James, Executive Engineer, French Rocks, India.

1897. Monkhouse, Edward Wyndham, Messrs. Burstall and Monkhouse, 14 Old Queen Street, Westminster, S.W. [*Advisedly, London.*]

1884. Monroe, Robert, Manager, Penarth Slipway and Engineering Works, Penarth Dock, Penarth.

1898. Moon, Edgar Rupert, Locomotive Superintendent, Midland Railway of Western Australia, Midland Junction Works, Western Australia: (or care of J. E. Moon, Cloudesleigh, Brixton, near Plymouth.)

1901. Moore, James, Messrs. Ralli Brothers, Karachi, India.

1876. Moore, Joseph, 1099 Adeline Street, Oakland, San Francisco, California: (or care of Ralph Moore, Government Inspector of Mines, 13 Clairmont Gardens, Glasgow.)

1901. Moore, Walter Launcelot, Engineer R.N., care of Dr. Moore, Chelsea Infirmary, London, S.W.

1895. Moore, William James Perry, Worthington Pumping Engine Co., 153 Queen Victoria Street, London, E.C.

1897. Morcom, Alfred, Managing Director, Messrs. Belliss and Morecom, Ledsam Street, Birmingham. [*Belliss, Birmingham.*]

1880. Moreland, Richard, Messrs. Richard Moreland and Son, 3 Old Street, St. Luke's, London, E.C. [*Expansion, London.*]

1900. Morgan, Charles Hill, 21 Lincoln Street, Worcester, Massachusetts, United States.

1889. Morgan, David John, Aberthaw House, Barry, near Cardiff.

1887. Morison, Donald Barns, Messrs. T. Richardson and Sons, Hartlepool Engine Works, Hartlepool.

1896. Morley, Herbert William, Messrs. Cole, Marchent and Morley, Prospect Foundry, Bradford. [*Cole, Bradford.* 690.]

1895. Morrin, Richard, Superintendent Engineer, Messrs. Lampert and Holt, 21 Water Street, Liverpool.

1888. Morris, Charles, Messrs. Jessop and Co., Phoenix Iron Works, Calcutta, India.

1874. Morris, Edmund Legh, New River Water Works, Finsbury Park, London, N.

1890. Morris, Francis Sanders, 4 Trafalgar Square, London, W.C.

1898. Morris, John, Royal Technical Institute, Salford, Manchester.

1890. Morris, John Alfred (*Life Member*), Empire Engineering Co., Empire Works, Failsworth, Manchester.

1900. Morrison, Gabriel James, The Bund, Shanghai, China.

1892. Morton, David Home, 130 Bath Street, Glasgow. [*Counsel, Glasgow.* 4874.]

1898. Moulton, Arthur Johnson, Locomotive Department, Midland Railway, Derby.

1858. Mountain, Charles George, 35 Exchange Buildings, Stephenson Place, Birmingham.

1886. Mountain, William Charles, Messrs. Ernest Scott and Mountain, Close Works, Newcastle-on-Tyne [*Esco, Newcastle-on-Tyne.* 1259.]; and South View, Hexham.

1884. Mower, George A. (*Life Member*), Crosby Steam Gage and Valve Co., 75 Queen Victoria Street, London, E.C. [*Crosby, London.*]

1873. Muir, Alfred, Messrs. William Muir and Co., Britannia Works, Sherbourne Street, Strangeways, Manchester.

1876. Muirhead, Richard, 66 Parrock Street, Gravesend.

1890. Mumford, Charles Edward, Messrs. Robert Boby, St. Andrew's Works Bury St. Edmunds.

1897. Munro, Edward May, Messrs. H. Brecknell, Sons and Munro, Edinburgh Chambers, Baldwin Street, Bristol. [*Brecknell, Bristol.* 467.]

1890. Munro, John, Professor of Mechanical Engineering, Merchant Venturers' Technical College, Unity Street, Bristol.

1890. Munro, Robert Douglas, Chief Engineer, Scottish Boiler Insurance and Engine Inspection Co., 111 Union Street, Glasgow. [*Inspector, Glasgow.* 1271.]

1889. Münster, Bernard Adolph, Engineer, Yokohama, Japan.

1891. Murdoch, Robert Macmillan, Brookside, Cwmavon, Port Talbot.

1890. Murray, Alexander John, Chief Mechanical Engineer, Government Gun-Powder Factory, Kirkee, Bombay, India.

1890. Murray, Kenneth Sutherland, Brin's Oxygen Works, 69 Horseferry Road, Westminster, S.W.

1894. Murray, Thomas Roberts, Managing Director, Messrs. Spencer and Co., Melksham.

1899. Musgrave, John Richard, Messrs. Musgrave Brothers, Crown Point Foundry, East Street, Leeds. [1226.]

1882. Musgrave, Walter Martin, Messrs. John Musgrave and Sons, Globe Iron Works, Bolton. [*Musgrave, Bolton.*]

1897. Musker, Arthur, Messrs. C. and A. Musker, Liverpool. [*Fulgor, Liverpool.* Anfield 215.]

1897. Musker, Charles, Messrs. C. and A. Musker, Liverpool. [*Fulgor, Liverpool.* Anfield 215.]

1901. Myers, Henry Sutcliffe, Messrs. Myers Brothers, Theaker Lane, Armley, Leeds.

1888. Myers-Beswick, William Beswick (*Life Member*), 14 Victoria Street, Westminster, S.W.

1899. Nasbey, George William, Cambrian House, Crouch Street, Banbury.

1889. Nash, Thomas, Sheffield Testing Works, Blonk Street, Sheffield; and Guzerat House, Nether Edge, Sheffield.

1889. Nasmith, Joseph, 61 Barton Arcade, Manchester.

1888. Nathan, Adolphus, Messrs. Larini Nathan and Co., Milan; and 15 Via Bigli, Milan, Italy.

1896. Naylor, Sam, Messrs. Lumby, Son and Wood, West Grove Works, Halifax. [*Lumby, Halifax. 5 A.*]

1898. Naylor, Tom Hyde, Sir B. Samuelson and Co., Newport Iron Works, Middlesbrough; and 112 Victoria Road, Middlesbrough.

1883. Neate, Percy John, 16 The Banks, High Street, Rochester.

1889. Needham, Joseph Edward, Patent Office, 25 Southampton Buildings, London, W.C.

1884. Nelson, John, Contractor's Office, 8 Lendal, York. [*Nelson, York.*]

1895. Nesbit, David Mein, Messrs. Ashwell and Nesbit, 12 Great James Street, Bedford Row, London, W.C. [*Plenum, London. Holborn 587*]; and Victoria Foundry, Leicester.

1890. Newton, Percy, 115 Queen's Gate, South Kensington, London, S.W.

1898. Newton, Samuel Barton, Yorkshire Chambers, Angel Street, Sheffield.

1897. Newton, Thomas George, Messrs. W. Summerscales and Sons, Chiswell House, 133 Finsbury Pavement, London, E.C.

1900. Nicholl, John Jeffery, Fern Lodge, 49 Glenarm Road, Clapton, London, N.E.

1884. Nicholls, James Mayne, Locomotive Superintendent, Nitrate Railways, Iquique, Chili.

1884. Nicholson, Henry, 37 Stockton Street, Moss Side, Manchester.

1894. Nicholson, John Rumney, Bridgewater Hotel, Worsley, Manchester.

1899. Nicol, Robert Gordon, Harbour Engineer, Aberdeen.

1899. Nisbet, William Holmes, Chief Mechanical Engineer, Queensland Government Railways, Brisbane, Queensland.

1886. Noakes, Thomas Joseph, Messrs. Thomas Noakes and Sons, 35 and 37 Brick Lane, Whitechapel, London, E.

1884. Noakes, Walter Maplesden, 73 Clarence Street, Wynyard Square, Sydney, New South Wales.

1892. Norris, William, Messrs. Coulthard and Co., Preston.

1868. Norris, William Gregory, Coalbrookdale Iron Works, Coalbrookdale, Shropshire.

1878. Northcott, William Henry, General Engine and Boiler Co., Hatcham Iron Works, Pomeroy Street, New Cross Road, London, S.E.; and 6 Earl's Court Square, London, S.W. [*Oxygen, London.*]

1900. Northey, Percy Wilbraham, 74 Caistor Road, Balham, London, S.W.

1898. Nutt, George Beaumont, Chief Mechanical Engineer, Queensland Government Railways, Brisbane, Queensland.

1885. Oakes, Sir Reginald Louis, Bart., Société Anonyme La Métallurgique, 1 Place de Louvain, Bruxelles, Belgium.

1887. O'Brien, Benjamin Thompson, 34 Catharine Street, Liverpool.

1887. O'Brien, John Owden, Messrs. W. P. Thompson and Co., Ducie Buildings, 6 Bank Street, Manchester.

1890. Ockendon, William, Messrs. John Brown and Co., Atlas Steel and Iron Works, Sheffield.

1868. O'Connor, Charles, 20 Lyra Road, Waterloo, Liverpool.

1888. O'Donnell, John Patrick, Palace Chambers, 9 Bridge Street, Westminster, S.W.; and Fingal, Hemmelton Road, Bromley, Kent. [*O'Donnell, London. Westminster 378.*]

1889. Ogden, Fred, Patent Office, 25 Southampton Buildings, London, W.C.

1886. Ogle, Percy John, 4 Bishopsgate Street Within, London, E.C. [*Ogle, London. Avenue 956.*]

1893. Oke, Francis Robert, 5 Coppenhall Terrace, Crewe. [*Oke, Crewe.*]

1875. Okes, John Charles Raymond, 63 Queen Victoria Street, London, E.C. [*Oaktree, London.*]

1900. Oldham, Thomas, Messrs. Alexander Oldham and Sons, Dukinfield.

1899. Oliver, Thomas, North George Street Iron Works, Salford, Manchester.

1882. Orange, James, Messrs. Danby Leigh and Orange, Hong Kong, China: (or care of Mrs. Mary Orange, 2 West End Terrace, Jersey.)

1899. Orcutt, Harry Fred Lee, Messrs. L. Loewe and Co., 30 and 32 Farringdon Road, London, E.C.

1885. Ormerod, Richard Oliver, Isca, Devonshire Place, Exeter.

1899. Ormsby, Alfred Stewart Augustus, Patent Office, Staple Inn, Holborn, London, W.C.

1897. Orr, Charles Roger, Manager, Gourepore Jute Manufacturing and Linseed Crushing Co., Calcutta; and Naihati, Bengal, India.

1899. Osborne, Thomas Peter, Assistant Carriage and Wagon Superintendent, Midland Railway, Derby; and The Poplars, Spondon, Derby.

1892. Osmond, Frederick John, The Tower, Bagot Street, Birmingham. [*Osmond, Birmingham. 550.*]

1899. Ottewell, Albert, Traffic Street, Derby. [*Ottewell, Derby. 51.*]

1867. Oughterson, George Blake, Broadway House, 2 Broadway, Westminster, S.W.; and 40 Blessington Road, Lewisham, London, S.E.

1897. Outram, Francis Davidson, late R.E., Messrs. Robertson and Outram, 28 Victoria Street, Westminster, S.W. [*Eyebolts, London.*]

1889. Owen, Thomas, Midland Railway, Derby.

1897. Owens, Philip Robert, Messrs. Donaldson and Owens, 73 Drury Buildings, Liverpool. [*Torpedo, Liverpool.*]

1900. Pajeken, Julius F., Messrs. L. Loewe and Co., 17-20 Hutten Strasse, Berlin, Germany.

1877. Panton, William Henry, Messrs. Dorman Long and Co., Middlesbrough.

1897. Parish, Charles Edward, Ouston Collieries, Chester-le-Street, Co. Durham.

1898. Park, Charles Archibald, Carriage Superintendent, London and North Western Railway, Wolverton, R.S.O., Bucks.

1872. Parker, Thomas, Gorton House, Gorton, near Manchester.

1888. Parker, Thomas, Jun., Carriage and Wagon Superintendent, Great Central Railway, Gorton, near Manchester; and Gorton House, Gorton, near Manchester.

1891. Parker, Thomas, F.R.S.E., Manor House, Tettenhall, Wolverhampton. [*Parker, Tettenhall.*]

1899. Parker, Thomas Hugh, Managing Director, Electric Street Car Manufacturing Syndicate, Wolverhampton. [*Autocar, Wolverhampton.*]

1895. Parkinson, Hudson Clough, Engineer's Office, Cumberland Basin, Bristol Docks, Bristol.

1900. Parkinson, Joseph, Canal Iron Works, Shipley, Yorks. [*Temples, Shipley. 4080.*]

1884. Parlame, William, Manager, Hong Kong Ice Company, Hong Kong, China: (or Ladyton Cottage, Bonhill, Dumbartonshire.)

1899. Parrack, William Thomas, Rochester Buildings, 138 Leadenhall Street, London, E.C.

1892. Parratt, William Heather, Rose Hall, Canje Creek, Berbice, British Guiana.

1892. Parrott, Thomas Henry, Fairlight, Westfield Road, Edgbaston, Birmingham.

1886. Parry, Alfred, 12 Inner Temple, Dale Street, Liverpool. [*Revolving, Liverpool.*]

1889. Parry, Evan Henry, Resident Engineer, Wolhuter Gold Mines, P. O. Box 1160, Johannesburg, Transvaal, South Africa.

1900. Parry-Jones, Richard, Salvage Association, 19 Birch Lane, London, E.C.; and 32 Thornton Avenue, Streatham Hill, London, S.W.

1878. Parsons, The Hon. Richard Clerc, Messrs. Bateman Parsons and Bateman, 39 Victoria Street, Westminster, S.W. [*Outfall, London.*]; and 48 Prince's Gardens, London, S.W.

1886. Passmore, Frank Bailey, Suffolk House, 5 Laurence Pountney Hill, London, E.C. [*Knarf, London.*]

1896. Patchell, William Henry, Engineer-in-chief, Charing Cross and Strand Electricity Supply Corporation, 15 Maiden Lane, Covent Garden, London, W.C.

1900. Paterson, James Alverne, Engineer R.N., H.M.S. "Mohawk," care of Postmaster-General, London, E.C.

1880. Paterson, Walter Saunders, Bombay Burmah Trading Corporation, Rangoon, British Burmah, India : (or care of Messrs. Wallace Brothers, 8 Austin Friars, London, E.C.)

1877. Paton, John McClure Caldwell, Messrs. Manlove Alliott and Co., Blooms Grove Works, Ilkeston Road, Nottingham. [*Manloves, Nottingham.*]

1881. Patterson, Anthony, Dowlais Iron Works, Cardiff; and 9 Glossop Terrace, Cardiff.

1891. Pattison, Joseph, 123 Bute Street, Cardiff.

1891. Paul, Matthew, Jun., Messrs. Matthew Paul and Co., Levenford Works, Dumbarton.

1872. Paxman, James Noah, Messrs. Davey Paxman and Co., Standard Iron Works, Colchester. [*Paxman, Colchester.*]

1880. Peache, James Courthope, Layer Marney Tower, Kelvedon, R.S.O., Essex.

1890. Peacock, Francis, Egyptian Delta Light Railway, Damanhour, Lower Egypt.

1890. Peacock, James Albert Wells, Egyptian Delta Light Railway, Damanhour, Lower Egypt.

1869. Peacock, Ralph, Messrs. Beyer Peacock and Co., Gorton Foundry, Manchester.

1897. Pearce, Thomas, Managing Director, Messrs. Johns and Waygood, Sturt Street, South Melbourne, Victoria : (or care of Messrs. C. R. Lee and Co., Suffolk House, Laurence Pountney Hill, London, E.C.)

1884. Pearson, Frank Henry, 27 Seale Lane, Hull. [*Pears, Hull.* 01005.]

1885. Pearson, Henry William, Engineer, Bristol Water Works, Small Street, Bristol.

1888. Peel, Charles Edmund, Quay Parade, Swansea.

1899. Peet, James, San Fernando, Trinidad, West Indies.

1898. Peet, William Gadsby, Locomotive Department, Midland Railway, Derby.

1900. Pendred, Vaughan, Crohill, Pendennis Road, Streatham, London, S.W.

1897. Penn, Frederick James, Messrs. Westley Richards and Co., Grange Road, Selly Oak, Birmingham.

1873. Penn, John, M.P., 22 Carlton House Terrace, London, S.W.

1873. Penn, William, Messrs. John Penn and Sons, Marine Engineers, Greenwich, London, S.E.

1874. Pepper, Joseph Ellershaw, Clarence Iron Works, Leeds.

1874. Percy, Cornelius McLeod, King Street, Wigan.

1898. Perks, John, Messrs. John Knowles and Co., Wooden Box, Burton-on-Trent.

1898. Pettigrew, William Frank, Locomotive Superintendent, Furness Railway, Barrow-in-Furness.

1893. Philip, William Littlejohn, General Manager, The Mirrlees, Watson and Yaryan Co., Scotland Street, Glasgow; and 7 Sherbrooke Avenue, Pollokshields, Glasgow. [*Mirrlees, Glasgow.*]

1885. Phillips, Charles David, Emlyn Engineering Works, Newport, Monmouthshire. [*Machinery, Newport, Mon.*]

1885. Phillips, Lionel (*Life Member*), Messrs. Wernher, Beit and Co., 120 Bishopsgate Street Within, London, E.C.

1879. Phillips, Robert Edward, 70 Chancery Lane, London, W.C. [*Phicycle, London. Holborn 1200.*]

1890. Phillips, Walter, 9 Gracechurch Street, London, E.C. [*Philology, London.*]

1882. Phipps, Christopher Edward, Locomotive Superintendent, Madras Railway, Perambore Works, Madras, India.

1894. Pickering, Jonathan, Baltic Chambers, 50 Wellington Street, Glasgow. [6180.]

1876. Piercy, Henry James Taylor, Messrs. Piercy and Co., Broad Street Engine Works, Birmingham. [*Piercy, Birmingham. 20.*]

1877. Pigot, Thomas Francis, 14 Fitzwilliam Place, Dublin.

1888. Pilkington, Herbert, Sheepbridge Iron Works, Chesterfield.

1900. Pillai, Velu Pillai Devasikhamani, Madras Municipal Commission, Madras, India.

1897. Pilling, Henry, National Boiler Insurance Co., 22 St. Ann's Square, Manchester.

1883. Pillow, Edward, Director of Technical Instruction for Norfolk, Shire Hall, Norwich; and 2 Carlton Terrace, Mill Hill Road, Norwich.

1892. Pinder, Charles Ralph, Broken Hill Chambers, 31 Queen Street, Melbourne, Victoria.

1892. Pirie, George, 157 Maxey Road, Plumstead.

1888. Pirrie, The Right Hon. William James, LL.D., Messrs. Harland and Wolff, Belfast.

1883. Pitt, Walter, Messrs. Stothert and Pitt, Newark Foundry, Bath. [*Stothert, Bath.*]

1887. Place, John, Messrs. Wheatley Kirk, Price and Co., 46 Watling Street, London, E.C. [*Indices, London. Bank 5077.*]

1899. Platt, Francis James, Messrs. Fielding and Platt, Atlas Iron Works, Gloucester. [*Atlas, Gloucester. 58.*]

1899. Platt, John, Messrs. Mather and Platt, Salford Iron Works, Manchester; and The Oaklands, Timperley, Altrincham.

1867. Platt, Samuel Radcliffe (*Life Member*), Messrs. Platt Brothers and Co., Hartford Iron Works, Oldham.

1878. Platts, John Joseph, Resident Engineer, Odessa Water Works, Odessa, Russia.

1869. Player, John (*Life Member*), Clydach Foundry, near Swansea.

1892. Pogson, Alfred Lee, care of Messrs. Henry S. King and Co., 65 Cornhill, London, E.C.

1888. Pogson, Joseph, Manager and Engineer, Huddersfield Corporation Tramways, Huddersfield.

1894. Poland, William, Messrs. William Poland and Co., King's Bench Walk, Southwark, London, S.E. [*Determine, London.*]

1893. Pollit, Edward Ernest, Messrs. Pollit and Wigzell, Bank Foundry, Sowerby Bridge.

1894. Pollitt, Harry, Fernlea, Altringham.

1886. Pollock, James, 22 Billiter Street, London, E.C. [*Specific, London.*]

1876. Pooley, Henry, Homestead, Liscard, Cheshire.

1898. Pooley, Henry, Jun., Messrs. Henry Pooley and Son, Albion Foundry, Kidsgrove, Staffordshire.

1899. Pope, Joseph Gordon, Messrs. Bilbie, Hobson and Co., 80 Queen Victoria Street, London, E.C.

1898. Porritt, Louis Alfred, Messrs. William Tatham and Co., Vulcan Works, Rochdale.

1890. Potter, William Henry, Brougham Chambers, Wheeler Gate, Nottingham.

1864. Potts, Benjamin Langford Foster, 55 Chancery Lane, London, W.C.; and 117 Camberwell Grove, London, S.E.

1878. Powell, Henry Coke, Cartref, 3 Winn Road, Burnt Ash Hill, Lee, London, S.E.

1874. Powell, Thomas, Brynteg, Neath.

1891. Powles, Henry Handley Pridham, 90 Oakley Street, Chelsea, London, S.W.

1898. Powrie, William, Messrs. Furnival and Co., 32 St. Bride Street, London, E.C. [*Furnival, London.*]

1867. Pratchett, John, Messrs. Pratchett Brothers, Denton Iron Works, Carlisle.

1865. Pratchett, William, Messrs. Pratchett Brothers, Denton Iron Works, Carlisle.

1892. Pratt, Middleton, Montreal, Church Road, Hoylake, near Liverpool.

1885. Pratten, William John, Messrs. Harland and Wolff, Belfast.

1890. Preece, Sir William Henry, K.C.B., F.R.S., 13 Queen Anne's Gate, Westminster, S.W.

1882. Presser, Ernest Charles Antoine, Barquillo 26, Madrid.

1897. Price, Charles Edwin, Messrs. Price and Corneille, 112 Grosvenor Road, London, S.W.

1877. Price, Henry Sherley, Messrs. Wheatley Kirk, Price, and Co., 46 Watling Street, London, E.C. [*Indices, London.* Bank 5077.]

1896. Price, James, Harbour Engineer, 9 Lapp's Quay, Cork.

1890. Price, John, Inspecting Engineer, Workington.

1889. Price, John Bennett, 313 Temple Chambers, Brazennose Street, Manchester; and Wyresdale, Wilbraham Road, Chorlton-cum-Hardy, near Manchester.

1859. Price-Williams, Richard, 6 Queen Anne's Gate, Westminster, S.W. [*Spandrel, London.*]

1886. Price-Williams, Seymour William, 5 Victoria Street, Westminster, S.W.

1896. Pritchard, Hugh, Dinorwic Slate Quarries, Llanberis, near Carnarvon ; and 14 Terfyn Terrace, Port Dinorwic, R.S.O., Carnarvonshire.

1895. Proctor, Charles Faraday, 1 High Swinburne Place, Newcastle-on-Tyne.

1894. Pryce, Henry James, Locomotive Superintendent, North London Railway, Bow Road Works, London, E.

1890. Pugh, Charles Henry, Whitworth Works, Rea Street South, Birmingham.

1895. Pugh, Charles Vernon, 34 Spon Street, Coventry.

1895. Pullar, Albert Evans, Pullar's Dye Works, Perth.

1887. Pullen, William Wade Fitzherbert, Professor of Mechanical Engineering, South-Western Polytechnic, Manresa Road, Chelsea, London, S.W. and Fairley Villa, Oxford Road, Putney, London, S.W.

1898. Pulman, Thomas Charles, care of Messrs. Grindlay and Co., Calcutta India.

1884. Puplett, Samuel, 47 Victoria Street, Westminster, S.W.

1887. Pyne, Sir Thomas Salter, C.S.I., care of H.H. the Ameer of Afghanistan, Kabul : (or care of E. C. Clarke, Foreign Office, Government of India, Simla or Calcutta, India : or care of Edmund Neel, C.I.E., India Office, Whitehall, London, S.W.)

1892. Quenctrall, Thomas, H.M. Inspector of Mines, Kimberley, South Africa.

1899. Quin, Robert Cornelius, Electrical and Tramway Engineer, Electricity Works, Blackpool. [*Electricity Works, Blackpool.* 67.]

1900. Quirk, William Montague Harley, Messrs. Barre, Johnston and Co., Leake Street, Fremantle, Western Australia.

1870. Radcliffe, William (*Life Member*), Lambcroft, Woodhouse, Sheffield.

1878. Radford, Richard Heber, 15 St. James' Row, Sheffield. [*Radford, Sheffield.*]

1868. Rafarel, Frederic William, Cwmbran Nut and Bolt Works, near Newport, Monmouthshire.

1885. Rainforth, William, Britannia Iron Works, Lincoln. [*Rainforths, Lincoln.*]

1878. Rait, Henry Milnes, Messrs. Rait and Gardiner, 155 Fenchurch Street, London, E.C. [*Repairs, London.*]

1892. Ramsay, William, Superintendent Engineer, Scottish Oriental Steamship Co., Hong Kong, China.

1894. Ramsbottom, John Goodfellow, Messrs. Beyer Peacock and Co., Gorton Foundry, Manchester.

1898. Ranger, Robert, Messrs. Ind, Coope and Co., Burton-on-Trent.

1860. Ransome, Allen, Messrs. A. Ransome and Co., Stanley Works, Newark ; and Lombard House, Newark.

1886. Ransome, James Edward, Messrs. Ransomes, Sims and Jefferies, Orwell Works, Ipswich. [*Ransomes, Ipswich.*]

1888. Rapley, Frederick Harvey, 6 Clement's Lane, Lombard Street, London, E.C.

1889. Ratcliffe, James Thomas, Baumwoll-Manufatur von Izr. K. Poznanski, Lodz, Russian Poland.

1893. Raven, Vincent Litchfield, Locomotive Department, North Eastern Railway, Darlington.

1883. Reader, Reuben, Phoenix Works, Cremorne Street, Nottingham.

1887. Readhead, Robert, Messrs. John Readhead and Sons, West Docks, South Shields [*Readhead, South Shields.* G.P.O. 14. Nat. 2024.]; and South Garth, South Shields.

1882. Reay, Thomas Purvis, Messrs. Kitson and Co., Airedale Foundry, Leeds.

1881. Redpath, Francis Robert, Canada Sugar Refinery, Montreal, Canada. [*Redpath, Montreal.*]

1870. Reed, Sir Edward James, K.C.B., F.R.S., Broadway Chambers, Westminster, S.W. [*Carnage, London.*]

1894. Reed, Joseph William, Manager, Engine Works Department, Palmer's Shipbuilding and Iron Works, Jarrow.

1897. Reid, Andrew Thomson, Messrs. Neilson, Reid and Co., Hyde Park Locomotive Works, Glasgow. [*Neilson, Springburn.* Royal 822.]

1891. Reid, Hugh (*Life Member*), Messrs. Neilson, Reid and Co., Hyde Park Locomotive Works, Glasgow. [*Neilson, Springburn.* Royal 822.]

1897. Reid, John (*Life Member*), Messrs. Neilson, Reid and Co., Hyde Park Locomotive Works, Glasgow. [*Neilson, Springburn.* Royal 822.]

1889. Rendell, Alan Wood, Locomotive Superintendent, East Indian Railway, Jamalpur, Bengal, India: (or 42 Goldhurst Terrace, South Hampstead, London, N.W.)

1890. Rendell, Samuel, Messrs. Beyer Peacock and Co., Gorton Foundry, Manchester; and New Mills, near Stockport.

1859. Rennie, George Banks, 20 Lowndes Street, Lowndes Square, London, S.W.

1879. Rennie, John Keith, 49 Queen's Gate, London, S.W.

1876. Restler, James William, Engineer, Southwark and Vauxhall Water Works, Southwark Bridge Road, London, S.E.

1883. Reunert, Theodore (*Life Member*), Box 432, Kimberley, South Africa; Box 92, Johannesburg, Transvaal, South Africa: (or care of Messrs. Findlay, Durham and Brodie, 110 Cannon Street, London, E.C.)

1895. Rew, James Henry, Grahamhill House, Airdrie.

1879. Reynolds, George Bernard, Constitutional Club, Northumberland Avenue, London, W.C.

1898. Reynolds, William Fleck, Messrs. Travers and Co., Britannia Works, Springfield Road, Belfast.

1890. Rice, Thomas Sydney, Aldermary House, 60 Watling Street, London, E.C. [*Ricto, London.*]

1866. Richards, Edward Windsor, Plâs Llecha, Tredunnock, Caerleon, Monmouthshire.

1897. Richards, Henry William Hall, Messrs. W. Richards and Son, Phoenix Iron Works, Leicester. [*Richards, Leicester.* 89.]

1892. Richardson, Harry Alfred, Messrs. Hick Hargreaves and Co., Soho Iron Works, Crook Street, Bolton.

1865. Richardson, John, Methley Park, near Leeds.

1873. Richardson, John, Messrs. Robey and Co., Globe Iron Works, Lincoln.

1891. Richardson, John Scott, 302 Calle Balcarce, Buenos Aires, Argentine Republic: (or care of J. W. Champness Richardson, Lindum, Pattison Road, Child's Hill, London, N.W.)

1887. Richardson, Sir Thomas, Messrs. T. Richardson and Sons, Hartlepool Engine Works, Hartlepool.

1874. Riches, Tom Hurry, Locomotive Superintendent, Taff Vale Railway, Cardiff.

1897. Richmond, William Frederick, Shellness, Stradella Road, Herne Hill, London, S.E.

1873. Rickaby, Alfred Austin, Bloomfield Engine Works, Sunderland. [*Rickaby, Sunderland.*]

1899. Ride, Samuel, 85 Royal Exchange, Manchester. [*Elevator, Manchester.*]

1899. Rider, John Hall, Electrical Engineer, Corporation Electricity Works, Plymouth.

1879. Ridley, James Cartmell, Swalwell Steel Works, Newcastle-on-Tyne.

1887. Riekie, John, Locomotive Superintendent, East Coast Railway, India.

1894. Riley, Joseph Hacking, Elton Iron Works, Bury, Lancashire.

1885. Ripley, Philip Edward, Messrs. Ransomes, Sims and Jefferies, Orwell Works, Ipswich.

1884. Ripper, William, Professor of Mechanical Engineering, Technical Department, University College, St. George's Square, Sheffield.

1879. Rixom, Alfred John, 108 Park Road, Loughborough.

1898. Rixson, Francis, Messrs. Woodhouse and Rixson, Chantrey Steel and Crank Works, Sheffield. [*Rixson, Sheffield.* 1113.]

1899. Roberts, David, General Manager, Messrs. R. Hornsby and Sons, Spittlegate Iron Works, Grantham. [*Hornsby, Grantham.*]

1891. Roberts, Hugh Jorwerth, Manor House, Breeze Hill, Bootle, Liverpool.

1887. Roberts, Thomas, Chief Mechanical Engineer, Government Railways, Adelaide, South Australia.

1879. Roberts, Thomas Herbert, Superintendent Motive Power, Norfolk and Southern Rail Road, Norfolk, Va., United States.

1887. Roberts, William, 13 Craven Hill Gardens, Hyde Park, London, W.

1892. Robertson, Leslie Stephen, Messrs. Robertson and Outram, 28 Victoria Street, Westminster, S.W. [*Eyebolts, London.*]

1899. Robins, George Mead, Gas and Water Engineer, Sutton, Surrey.

1894. Robinson, Arthur Maurice, Messrs. Thomas Robinson and Son, Railway Works, Rochdale. [*Robinson, Rochdale.*]

1897. Robinson, Charles Arthur, Messrs. Robinson, Sadler and Co., 20 Ebrington Street, Plymouth. [506.]

1894. Robinson, Charles John, Messrs. Thomas Robinson and Son, Railway Works, Rochdale. [*Robinson, Rochdale.*]

1900. Robinson, Edward Mark, Messrs. Bramwell and Harris, 5 Great George Street, Westminster, S.W.

1890. Robinson, Frederick Arthur, Messrs. F. A. Robinson and Co., 54 Old Broad Street, London, E.C. [*Farrago, London.*]

1874. Robinson, Henry, Professor of Civil Engineering, King's College, Strand, London, W.C.; and 13 Victoria Street, Westminster, S.W.

1895. Robinson, James, 25 and 27 Leinster Chambers, 4 St. Anne's Square, Manchester.

1898. Robinson, James Armstrong, Stafford Road Works, Great Western Railway, Wolverhampton.

1859. Robinson, John, Messrs. Sharp Stewart and Co., Atlas Works, Glasgow; and Westwood Hall, near Leek.

1886. Robinson, John, Engineer's Office, New Dock Works, North Eastern Railway, Middlesbrough.

1878. Robinson, John Frederick, Messrs. Sharp Stewart and Co., Atlas Works, Glasgow. [*Loco, Glasgow. Royal 3210.*]

1891. Robinson, John George, Chief Locomotive Engineer, Great Central Railway, Gorton, Manchester.

1899. Robinson, Joseph Drinkwater, R.N.R., Superintendent Engineer, Cork Blackrock and Passage Railway, Passage, Cork.

1894. Robinson, Mark Heaton, Messrs. Willans and Robinson, Victoria Works, Rugby [*c/o Willans, Rugby.*]; and Overslade, Rugby.

1890. Robinson, Sydney Jessop, Messrs. W. Jessop and Sons, Brightside Steel Works, Sheffield.

1878. Robinson, Thomas Neild, Messrs. Thomas Robinson and Son, Railway Works, Rochdale. [*Robinson, Rochdale.*]

1895. Robinson, William, Professor of Mechanical and Electrical Engineering, University College, Nottingham.

1897. Robson, George, 14 Union Court, Old Broad Street, London, E.C.

1899. Robson, William Henry, Manager, Messrs. Chance Brothers and Co., near Birmingham.

1891. Roche, Francis James, Grand Junction Gold Mining Co., Waihi, Auckland, New Zealand.

1872. Rofe, Henry, 8 Victoria Street, Westminster, S.W.

1885. Rogers, Henry John, Watford Engineering Works, Watford. [*Mechanical, Watford.* 35.]

1898. Rolfe, John Herbert Hieron, 69 Old Street, London, E.C.

1892. Ronald, Henry, Birmingham Small Arms Co., Small Heath, Birmingham.

1898. Roots, James D., 100 Westminster Bridge Road, London, S.E.

1889. Rosenthal, James Hermann, Babcock and Wilcox Co., Oriel House, Farringdon Street, London, E.C.

1881. Ross, William, Messrs. Ross and Walpole, North Wall Iron Works, Dublin. [*Iron, Dublin.* 311.]

1899. Ross, William, Jun., 27 Thistle Street, Glasgow.

1896. Rothery, William Brockbank, Norbriggs, Lytham, R.S.O., Lancashire.

1893. Rounthwaite, Henry Morrison, 25 Victoria Street, Westminster, S.W.; and 15 Nicosia Road, Wandsworth Common, London, S.W.

1856. Rouse, Frederick, Locomotive Department, Great Northern Railway, Peterborough.

1878. Routh, William Pole, Oakfield, Southern Hill, Reading.

1898. Row, Oliver Matthews, Dalham Works, Great Bridgewater Street, Manchester.

1888. Rowan, James, Messrs. David Rowan and Son, Elliot Street, Glasgow.

1892. Rowe, Almond, Senior Government Marine Surveyor, Singapore, Straits Settlements.

1891. Rowland, Bartholomew Richmond, Holly Bank, Altrincham.

1898. Royce, Frederick Henry, Messrs. F. H. Royce and Co., Cooke Street, Hulme, Manchester. [*Switch, Manchester.* 772.]

1897. Roylance, Arthur Herbert, Haworth's Buildings, 5 Cross Street, Manchester.

1898. Russell, Bridgman, 42 Berwick Street, Oxford Street, London, W. [*Ventilabro, London.* Gerrard 5349.]

1885. Ryan, John, D.Sc., Woolwich Polytechnic, William Street, Woolwich.

1859. Salt, George, 8 Welbeck Street, Cavendish Square, London, W.

1874. Sampson, James Lyons, Messrs. David Hart and Co., North London Iron Works, Wenlock Road, City Road, London, N. [*Basecle, London.* King's Cross 733.]

1865. Samuelson, The Right Hon. Sir Bernhard, Bart., F.R.S., Britannia Iron Works, Banbury; 56 Prince's Gate, South Kensington, London, S.W.; and Lupton, Brixham, South Devon.

1881. Samuelson, Ernest, Messrs. Samuelson and Co., Britannia Iron Works, Banbury.

1890. Sandberg, Christer Peter, Palace Chambers, Bridge Street, Westminster, S.W.

1899. Sandeman, Edward, Engineer, Derwent Valley Water Board, Bamford, Sheffield.

1881. Sanders, Henry Conrad, Messrs. H. G. Sanders and Son, Victoria Works, Gordon Road, Southall; and Elm Lodge, Southall.

1871. Sanders, Richard David, 5 Kidbrook Grove, Blackheath, London, S.E.

1886. Sandford, Horatio, Messrs. E. A. and H. Sandford, Thames Iron Works, Gravesend.

1881. Sandiford, Charles, Locomotive Superintendent, Uganda Railway, Mombasa.

1891. Sands, Harold, Craythorne, Tenterden, Ashford, Kent.

1894. Sankey, Captain Matthew Henry Phineas Riali, Messrs. Willans and Robinson, Victoria Works, Rugby. [*c/o Willans, Rugby.*]

1899. Sergeant, Edward Frank, Lower Street, Stroud, Gloucestershire. [*Sergeant, Stroud. 14.*]

1900. Sauvage, Edouard, Professeur à l'Ecole des Mines de Paris, Ingénieur en Chef Conseil de la Cie. des Chemins de Fer de l'Ouest, 14 Rue Eugène Flachat (17<sup>e</sup> arr<sup>t</sup>), Paris.

1874. Sauvée, Albert, Union Works, 60 Park Street, Southwark, London, S.E. [*Sovez, London. Hop 213.*]

1891. Savill, Arthur Slater, Exhaust Steam Injector Company, 4 St. Ann's Square, Manchester.

1880. Saxby, John, Messrs. Saxby and Farmer, Railway Signal Works, Canterbury Road, Kilburn, London, N.W. [*Signalmen, London. Kilburn 421.*]; and North Court, Hassocks, R.S.O., Sussex.

1893. Saxon, Alfred, Openshaw Engineering Works and Examiner Buildings, Manchester. [959 and 3904.]

1894. Saxon, George, Openshaw Engineering Works and Examiner Buildings, Manchester. [959 and 3904.]

1894. Saxon, James, Openshaw Engineering Works and Examiner Buildings, Manchester. [959 and 3904.]

1869. Scarlett, James, Messrs. E. Green and Son, 2 Exchange Street, Manchester; and Stamford Road, Bowdon, R.O., near Altringham.

1890. Schofield, George Andrew, General Manager, Sicilian Railways, Palazzo Brijuccia, Palermo, Sicily: (or care of I. D. Schofield, Oakfield, Alderley Edge, Cheshire.)

1886. Scholes, William Henry, 1255 Rivadavia, Buenos Aires, Argentine Republic: (or care of George Scholes, Orwell House, Upton Manor, Plaistow, London, E.)

1883. Schönheyder, William, 4 Rosebery Road, Brixton, London, S.W. [*Schönheyder, London.*]

1890. Schroller, William, 5 Blair Road, Alexandra Park, Manchester.

1886. Schurr, Albert Ebenezer, Messrs. Fry Miers and Co., Suffolk House, 5 Laurence Pountney Hill, London, E.C.

1891. Scott, Arthur Forbes, 171 Swan Arcade, Bradford.

1882. Scott, Charles Herbert, Messrs. Summers and Scott, High Orchard Iron Works, Gloucester.

1890. Scott, Frederick McClure, 89 Victoria Street, Liverpool.

1875. Scott, Frederick Whitaker, Atlas Steel and Iron Wire Rope Works, Reddish, Stockport. [*Atlas, Reddish.*]

1891. Scott, Henry John, Glendon Engine Works, Kettering. [*Engine, Kettering.*]

1881. Scott, James, care of Messrs. Reid and Acutt, Smith Street, Durban, Natal: (or Douglasfield, Murthly, Perthshire.)

1886. Scott, James, Consett Iron Works, Consett, R.S.O., County Durham.

1894. Scott, Robert, H. M. Mint, Calcutta, India.

1891. Scott, Robert Julian, Professor of Engineering, New Zealand University, Canterbury College, Christchurch, New Zealand.

1861. Scott, Walter Henry, Great Western of Brazil Railway, Pernambuco, Brazil: (or care of H. Eaton, 75 Tulse Hill, London, S.W.)

1899. Scott, William George, Cheshire Lines Railway, Central Station, Liverpool.

1897. Scotter, Robert Herbert, Ormskirk and Southport Electric Light Railway, 55 Avondale Road, Southport.

1896. Scriven, Charles, Leeds Old Foundry, Leeds.

1882. Seabrook, Alfred William, 40 Mayfair Avenue, Ilford.

1892. Seaman, Charles Joseph, General Manager, Messrs. Heenan and Froude, Newton Heath Iron Works, near Manchester. [*Spherical, Newton Heath.* 966 A.]

1882. Seaton, Albert Edward, Earle's Shipbuilding and Engineering Works, Hull; and Wilton House, Holderness Road, Hull.

1891. Selby, Millin, 2 Rue du Lac, Bruxelles, Belgium.

1882. Selfe, Norman, 279 George Street, Sydney, New South Wales.

1884. Sellers, Coleman, E.D., Professor of Engineering, Stevens Institute, and Franklin Institute; 3301 Baring Street, Philadelphia, Pennsylvania, United States.

1865. Sellers, William, Pennsylvania Avenue, Philadelphia, Pennsylvania, United States.

1896. Sennett, Alfred Richard, care of The Royal Institution, Albemarle Street, London, W.

1883. Shackleford, Arthur Lewis, General Manager, Britannia Railway-Carriage and Wagon Works, Saltley, Birmingham.

1884. Shackleford, William Copley, Manager, Lancaster Wagon Works, Lancaster; and 8 Victoria Street, Westminster, S.W.

1894. Shand, John, Messrs. Morgan and Smith, 211 Clarence Street, Sydney, New South Wales.

1884. Shanks, William, Messrs. Thomas Shanks and Co., Johnstone, near Glasgow. [*Shanks, Johnstone.*]

1897. Sharp, John, Bolton Iron and Steel Works, Bolton. [*Hammer, Bolton.* 161.]

1895. Sharp, John Hutchinson, Messrs. Sharp, Stewart and Co., Atlas Works, Glasgow.

1898. Sharp, Sidney, 34 Victoria Street, Westminster, S.W.

1875. Sharp, Thomas Budworth, Consulting Engineer, Muntz Metal Works, Birmingham; and County Chambers A, Martineau Street, Birmingham. [*Budworth, Birmingham.*]

1897. Sharpley, George Ruston, Messrs. Ruston, Proctor and Co., Sheaf Iron Works, Lincoln.

1881. Shaw, Joshua, Messrs. John Shaw and Sons, Wellington Street Works, Salford, Manchester.

1900. Shaw, Percy Charles William, Tramway Construction Branch, Public Works, Sydney, New South Wales.

1890. Sheldon, Harry Cecil, Messrs. Boult and Wade, 63 Long Row, Nottingham. [*Boult, Nottingham.* 645.]

1900. Sheldon, William John, Resident Engineer, São Paulo Railway, São Paulo, Brazil.

1892. Shepherd, James, Messrs. Joshua Buckton and Co., Well House Foundry, Meadow Road, Leeds.

1861. Shepherd, John, 45 Regent Park Terrace, Headingley, Leeds.

1899. Shepherd, Richard Lillington, care of Chillagoe Railway and Mines Co., 39 Queen Street, Melbourne, Victoria.

1875. Sheppard, Herbert Gurney, Inspector General of Stores, Egyptian State Railways, Gabbari, Alexandria, Egypt: (or 89 Westbourne Terrace, Hyde Park, London, W.)

1876. Shield, Henry, Messrs. Fawcett Preston and Co., Phoenix Foundry, 17 York Street, Liverpool.

1888. Shin, Tsuneta, Director, Ishikawajima Shipbuilding and Engineering Co., Tokyo, Japan.

1892. Shirlaw, Andrew, Suffolk Works, Oozells Street, Birmingham. [*Shirlaw, Birmingham.*]

1889. Shone, Isaac, 47 Victoria Street, Westminster, S.W.

1890. Shoosmith, Harry, Ormiston, Erith, S.O., Kent.

1893. Shroff, Adurjee Burjorjee, Chief Engineer, Sassoon Spinning Mills, Bombay, India.

1885. Shuttleworth, Alfred, Messrs. Clayton and Shuttleworth, Stamp End Works, Lincoln. [*Claytons, Lincoln.*]

1885. Shuttleworth, Major Frank, Messrs. Clayton and Shuttleworth, Stamp End Works, Lincoln; and Old Warden Park, Biggleswade. [*Claytons, Lincoln.*]

1899. Sibbering, George Thomas, Engineer, Taff Vale Railway, Cardiff.

1891. Siemens, Alexander (*Life Member*), 12 Queen Anne's Gate, Westminster, S.W.

1898. Sillar, Arthur Molyneux, 2 Queen Anne's Gate, Westminster, S.W.

1897. Sime, William, Messrs. Cook and Co., East London Soap Works, Bow, London, E.

1899. Simmance, John Frederick, Messrs. Simmance and Abady, Westminster Works, Earl Street, Westminster, S.W.

1877. Simonds, William Turner (*Life Member*), Messrs. J. C. Simonds and Son, Oil Mills, Boston.

1876. Simpson, Arthur Telford, Engineer, Chelsea Water Works, 38 Parliament Street, Westminster, S.W.

1883. Simpson, Charles Liddell, Messrs. Simpson and Co., Engine Works, 101 Grosvenor Road, Pimlico, London, S.W. [*Aquosity, London.*]

1885. Simpson, James Thomas, Superintending Engineer, Public Works Department, Toungoo, Burma.

1882. Simpson, John Harwood, 1 Hargwyne Street, Brixton, London, S.W.

1891. Sinclair, Russell, Messrs. J. Wildridge and Sinclair, 97 Pitt Street, Sydney, New South Wales.

1881. Sisson, William, Quay Street Iron Works, Gloucester. [*Sisson, Gloucester.*]

1872. Slater, Alfred, Gloucester Wagon Works, Gloucester.

1892. Slight, George Henry, Sub-Director of Lighthouses, Valparaiso, Chile: (or care of George H. Slight, Sen., Waldean, Crofts Lea Park, Ilfracombe.)

1885. Slight, William Hooper, Messrs. W. Henderson and Co., Soerabaya, Java: (or care of G. H. Slight, 64 Cromwell Road, Fitzhugh, Southampton.)

1891. Sloan, Robert Alexander, Messrs. Sloan and Lloyd Barnes, 34 Castle Street, Liverpool. [*Technical, Liverpool.* 6080.]

1886. Small, James Miln, Messrs. Urquhart and Small, 17 Victoria Street, Westminster, S.W.

1897. Smallman, Herbert Spencer, Globe Tube Works, Wednesbury. [*Tubes, Wednesbury.* 6504.]

1900. Smart, Alexander, Erith, S.O., Kent.

1898. Smart, Leslie Sanderson, Locomotive Department, London Brighton and South Coast Railway, Brighton.

1899. Smeddle, John Henry, Assistant Locomotive Superintendent, North Eastern Railway, Darlington.

1889. Smelt, John Dann, Argentine Great Western Railway, River Plate House, Finsbury Circus, London, E.C. [*Azodnem, London.*]

1899. Smethurst, William, 134 Deansgate, Manchester.

1900. Smith, Alexander Dawson, Mirrlees, Watson and Yaryan Co., 45 Scotland Street, Glasgow.

1860. Smith, Henry, Messrs. Hill and Smith, Brierley Hill Iron Works, Brierley Hill ; and Summerhill, Kingswinford, near Dudley. [*Fencing, Brierley Hill.*]

1881. Smith, Henry, Messrs. Simpson and Co., 101 Grosvenor Road, Pimlico, London, S.W.

1898. Smith, Isaac, Messrs. Sydney Smith and Sons, Basford Brass Works, Nottingham ; and Hickling Lodge, Keyworth, Nottingham. [*Smiths, Nottingham.* 1537.]

1893. Smith, John, Salford Works, Richard Street, Birmingham. [*Profiler, Birmingham.* 2540.]

1898. Smith, John, Burton Brewery Co., Burton-on-Trent.

1883. Smith, John Bagnold, Westfield House, Sutton-in-Ashfield, Nottingham.

1891. Smith, John Reney, Messrs. H. and C. Grayson, 179 Regent Road, Liverpool.

1898. Smith, John William, Locomotive Department, Midland Railway, Derby.

1890. Smith, John Windle, Messrs. Thomas Drysdale and Co., 438 Calle Moreno, Buenos Aires, Argentine Republic : (or care of Edward Smith, The "Lock," Gainsborough.)

1870. Smith, Michael Holroyd, Royal Insurance Buildings, Crossley Street, Halifax ; and 47 Victoria Street, Westminster, S.W. [*Outfall, London.*]

1886. Smith, Reginald Arthur, Messrs. Dorman and Smith, Ordsal Station Electrical Works, Salford, Manchester.

1881. Smith, Professor Robert Henry, 12 Parliament Mansions, Victoria Street, Westminster, S.W. ; and Ellerslie, Brunswick Road, Sutton, Surrey.

1897. Smith, Robert Walker, Works Manager, New Enfield Cycle Co., Hunt End Works, Redditch ; and Stoneleigh, Redditch.

1896. Smith, Roger Thomas, 17 Victoria Street, Westminster, S.W.

1885. Smith, Thomas, Steam Crane Works, Old Foundry, Rodley, near Leeds. [*Tomesmith, Leeds.*]

1898. Smith, Tom Graves, Messrs. Humpidge, Holborow and Co., Dudbridge Iron Works, Stroud, Gloucestershire. [*Humpidge, Cainscross.* 7.]

1898. Smith, Walter Mackersie, Locomotive Department, North Eastern Railway, Gateshead.

1881. Smith, Wasteneys, 59 Sandhill, Newcastle-on-Tyne. [*Wasteneys Smith, Newcastle-on-Tyne.* 2018.]

1890. Smith, William, London and Manchester Plate Glass Co., Sutton, St. Helens, Lancashire.

1900. Smith, William Hill, Messrs. Smith Brothers and Eastwood, Valley Iron Works, Bradford.

1887. Smith, William Mark, District Locomotive Carriage and Wagon Superintendent, Great Southern and Western Railway, Cork.

1884. Smyth, William Stopford, Engineer, Alexandra Docks, Newport, Monmouthshire.

1891. Snell, John Francis Cleverton, Borough Electrical Engineer, Corporation Electricity Station, Sunderland.

1883. Snelus, George James, F.R.S., Ennerdale Hall, Frizington, near Carnforth.

1885. Snowdon, John Armstrong, Stanners Closes Steel Works, Wolsingham, near Darlington.

1897. Snoxell, George Edgar, Birtley Iron Works, Birtley, Durham.

1895. Somers, Walter, Haywood Forge, Halesowen, near Birmingham.

1887. Sorabji, Shapurji, Messrs. Shapurjee and Ratanshaw, 49 Leadenhall Street, London, E.C. [*Ratanshaw, London.*]

1889. Souter-Robertson, David, Assistant Superintendent, Government Canal Foundry and Workshops, Roorkee, North Western Provinces, India.

1885. Southwell, Frederick Charles, Messrs. F. C. Southwell and Co., 75 Southwark Street, London, S.E. [*Prevailing, London.*]

1877. Soyres, Francis Johnstone de, 4 Leicester Place, Clifton, Bristol.

1900. Sparkes, Samuel Hurford, General Manager, Messrs. Fox Brothers and Co., Wellington, Somerset.

1893. Spence, Arthur William, Manager, Cork Street Foundry and Engineering Works, Dublin.

1898. Spence, Wilfrid L., Waterloo Chambers, Glasgow.

1887. Spence, William, Cork Street Foundry and Engineering Works, Dublin.

1887. Spencer, Alexander, Messrs. George Spencer, Moulton and Co., 77 Cannon Street, London, E.C. [*George Spencer, London.*]

1878. Spencer, Alfred G., Messrs. George Spencer, Moulton and Co., 77 Cannon Street, London, E.C. [*George Spencer, London.*]

1896. Spencer, Charles James, Messrs. Hendry and Pattisson, 4 Marlborough Mews, Hills Place, Oxford Street, London, W.

1892. Spencer, Henry Bath, 48 Downshire Hill, Hampstead, London, N.W.

1877. Spencer, John, Globe Tube Works, Wednesbury; and 14 Great St. Thomas Apostle, London, E.C. [*Tubes, Wednesbury. Tubes, London. 6504.*]

1897. Spencer, John, Atlas Works, Keighley. [*Spencer, Engineer, Keighley. 118.*]

1867. Spencer, John W., Newburn Steel Works, Newcastle-on-Tyne. [*Newburn, Newcastle-on-Tyne.*]

1885. Spencer, Mountford, Messrs. Luke and Spencer, Broadheath, near Manchester; and The Hill, Teignmouth.

1854. Spencer, Thomas, Newburn Steel Works, Newcastle-on-Tyne. [*Newburn, Newcastle-on-Tyne.*]

1897. Spencer, Thomas Harris, Globe Tube Works, Wednesbury. [*Tubes, Wednesbury. 6504.*]

1891. Spence, William, Messrs. James Spencer and Co., Chamber Iron Works, Hollinwood, near Manchester.

1885. Spooner, George Percival, 45 Glengall Road, Kilburn, London, N.W.

1883. Spooner, Henry John, Director and Professor of Engineering at the Polytechnic School of Engineering, 309 Regent Street, London, W.

1896. Spring, Francis Joseph Edward, C.I.E., Government Consulting Engineer for Railways, Madras, India.

1869. Stabler, James, 13 Effra Road, Brixton, London, S.W.

1897. Stagg, William, Canons' Marsh Gas Works, Bristol.

1899. Stamer, Arthur Cowie, Locomotive Department, North Eastern Railway, North Road, Darlington.

1877. Stanger, George Hurst, Queen's Chambers, North Street, Wolverhampton.

1875. Stanger, William Harry, Chemical Laboratory and Testing Works, Broadway, Westminster, S.W. [Westminster 117.]

1888. Stanley, Harry Frank, Messrs. H. Pontifex and Sons, Farringdon Works, Shoe Lane, London, E.C.; and 11 Albert Mansions, Crouch Hill, London, N.

1888. Stannah, Joseph, 20 Southwark Bridge Road, London, S.E.

1884. Stanton, Frederic Barry, Mansion House Chambers, 11 Queen Victoria Street, London, E.C.

1897. Steele, James, Works Manager, Messrs. R. Y. Pickering and Co., Wishaw, near Glasgow.

1868. Stephenson, George Robert, Ben Braich, Tilehurst Road, Reading.

1879. Stephenson, Joseph Gurdon Leycester, Chihuahua, Mexico.

1888. Stephenson-Peach, William John, Askew Hill, Repton, Burton-on-Trent.

1876. Sterne, Louis, Messrs. L. Sterne and Co., Crown Iron Works, Glasgow [Crown, Glasgow.]; and Donington House, Norfolk Street, London, W.C. [Elsterne, London. Gerrard 1989.]

1898. Stevens, Arthur James, Managing Director, Uskside Iron Works, Newport, Monmouthshire. [Uskside, Newport, Mon. P.O. 29; Nat. 53.] (Former Member 1875-1886.)

1891. Stevens, James, 9 and 11 Fenchurch Avenue, London, E.C.

1894. Stevens, Thomas, 110 Northgate Street, Bury St. Edmunds.

1887. Stevenson, David Alan, F.R.S.E., 8½ George Street, Edinburgh.

1898. Stevenson, Hew, Messrs. Crompton and Co., Mansion House Buildings, Queen Victoria Street, London, E.C.

1887. Stewart, Andrew, 41 Oswald Street, Glasgow.

1878. Stewart, Duncan, Messrs. Duncan Stewart and Co., London Road Iron Works, Glasgow. [Stewart, Glasgow. Royal 531.]

1892. Still, William Henry, Hudjuff, Aden, Arabia.

1880. Stirling, James, Belmore, Ashford, Kent.

1885. Stirling, Matthew, Locomotive Superintendent, Hull Barnsley and West Riding Junction Railway and Dock Co., Hull.

1896. Stirling, Patrick. Great Northern Railway, Doncaster.

1888. Stirling, Robert, care of R. S. Brundell, Redholm, Doncaster.

1898. Stirling, Robert, Baku Russian Petroleum Co., Baku, Russia.

1898. Stobie, George. Government Harbour Department, Durban, Natal.

1901. Stocker, Percy, Engineer R.N., H.M.S. "Racoon," care of Postmaster-General, London, E.C.

1893. Stockton, Joseph Sadler, Beech House, Kenilworth.

1892. Stone, Edward Herbert, Chief Engineer, East Indian Railway, Calcutta, India.

1887. Stone, Frank Holmes, G. P. O., Freetown, Sierra Leone.

1894. Stone, Sidney, Works Manager, Ashbury Railway Carriage and Iron Co., Openshaw, Manchester.

1877. Stothert, George Kelson, Steam Ship Works, Bristol.

1892. Strachan, John, Craigisla, Penylan, Cardiff.

1888. Straker, Sidney, 9 Bush Lane, Cannon Street, London, E.C. [*Rhomoidal, London.* Bank 5200.]; and Marazion, Bromley Hill, Kent.

1897. Strickland, Frederic, 215 Upper Richmond Road, Putney, London, S.W.

1895. Stromeyer, Johann Philipp Edmond Charles, Manchester Steam Users' Association, 9 Mount Street, Manchester.

1884. Stronge, Charles, Locomotive Department, Porto Alegre and New Hamburg Railway, São Leopoldo, Rio Grande do Sol, Brazil.

1899. Stubbs, Joseph Hetherington, Mill Street Works, Ancoats, Manchester. [*Winding, Manchester.*]

1890. Stutzer, Waldemar, Koltchugin Brass and Copper Mill Co., Alexandrov Station, Jaroslav Railroad, Russia.

1882. Sugden, Thomas, Babcock and Wilcox Co., Oriel House, Farringdon Street, London, E.C.

1890. Sulzer, Jacob, Messrs. Sulzer Brothers, Winterthur, Switzerland.

1861. Sumner, William, Butt Hill, Prestwich, Manchester.

1899. Surtees, Henry Wardale, Parker Foundry Co., Derby.

1875. Sutcliffe, Frederic John Ramsbottom, 52 Ash Grove, Bradford.

1883. Sutton, Joseph Walker, 36 Bedford Street, Strand, London, W.C.

1880. Sutton, Thomas, Kirkstall Forge Co., 1 Victoria Street, Westminster, S.W.

1882. Swaine, John, Publow Vicarage, Pensford, Bristol.

1884. Swan, Joseph Wilson, F.R.S., 57 Holborn Viaduct, London, E.C.; and 58 Holland Park, London, W.

1898. Swasey, Ambrose, Messrs. Warner and Swasey, Cleveland, Ohio, United States.

1897. Swinburne, George, 99 Queen Street, Melbourne, Victoria.

1898. Swinburne, James, 82 Victoria Street, Westminster, S.W. [Westminster 292.]

1882. Swinburne, Mark William, Wallsend Brass Works, Newcastle-on-Tyne; and 117 Park Road, Newcastle-on-Tyne. [*Bronze, Wallsend.*]

1864. Swindell, James Swindell Evers, Homer Hill, Cradley, Staffordshire.

1898. Swingler, Alfred, Messrs. Eastwood, Swingler and Co., Victoria and Railway Iron Works, Derby. [*Swingler, Derby.* 150.]

1900. Taggart, William Scott, 53 Prinz Georg Strasse, Düsseldorf, Germany.

1878. Taite, John Charles, New Taito Howard Pneumatic Tool Co., 63 Queen Victoria Street, London, E.C. [Bank 5642.]; and The Corner House, Shortlands, S.O., Kent.

1875. Tangye, George, Messrs. Tangyes, Cornwall Works, Soho, near Birmingham. [*Tangyes, Birmingham.*]

1889. Tangye, Harold Lincoln, Messrs. Tangyes, Cornwall Works, Soho, near Birmingham.

1861. Tangye, James, Messrs. Tangyes, Cornwall Works, Soho, near Birmingham; and Aviary Cottage, Illogan, near Redruth.

1895. Tannett, John Croydsdale, Messrs. Fullerton, Hodgart and Barclay, Vulcan Works, Paisley.

1891. Tannett-Walker, Arthur Tannett, Messrs. Tannett Walker and Co., Goodman Street Works, Hunslet, Leeds.

1899. Taplin, John Minter, Vulcan Boiler and General Insurance Co., 68 Elgin Road, Seven Kings, Ilford.

1879. Tartt, William, Maythorn, South Godstone, Surrey.

1876. Taunton, Richard Hobbs, 10 Coleshill Street, Birmingham.

1874. Taylor, Arthur, 21 Victoria Road, Kensington, London, W.

1900. Taylor, Charles Gerald, Engineer R.N., H.M. Dockyard, Halifax, Nova Scotia.

1900. Taylor, Edward Brough, 27 Great George Street, Westminster, S.W.

1873. Taylor, John, 324 Mansfield Road, Nottingham.

1884. Taylor, Joseph, Holme Lea, Tatton Road North, Heaton Moor, near Stockport.

1875. Taylor, Joseph Samuel, Messrs. Taylor and Challen, Derwent Foundry, 60 and 62 Constitution Hill, Birmingham. [*Derwent, Birmingham.*]

1874. Taylor, Pereyvale, Messrs. Burthe and Taylor, Paris; and 21 Victoria Road, Kensington, London, W.

1893. Taylor, Robert, Jun., Works Manager, Messrs. Asa Lees and Co., Soho Iron Works, Oldham.

1882. Taylor, Robert Henry, Admiralty Harbour Works, Dover.

1894. Taylor, William, Messrs. Taylor, Taylor and Hobson, Stoughton Street Works, Leicester. [*Lenees, Leicester.* 134.]

1896. Taylor, William Isaac, Messrs. Clarke, Chapman and Co., 50 Fenchurch Street, London, E.C.

1895. Tebbutt, Sidney, Bagenholt, Northlands Road, Southampton.

1864. Tennant, Sir Charles, Bart. (*Life Member*), The Glen, Innerleithen, near Edinburgh.

1882. Terry, Stephen Harding, 17 Victoria Street, Westminster, S.W.

1891. Tetlow, Ernest, Messrs. Tetlow Brothers, Bottoms Iron Works, Hollinwood, near Manchester.

1899. Thackeray, Thomas, Messrs. Vickers, Sons and Maxim, Barrow-in-Furness.

1877. Thom, William, Messrs. Yates and Thom, Canal Foundry, Blackburn.

1896. Thomas, James Martin, Superintending Engineer, Boston and Dominion Lines of Steamers; 15 Pembroke Road, Bootle, Liverpool.

1867. Thomas, Joseph Lee, 2 Hanover Terrace, Ladbroke Square, Notting Hill, London, W.

1897. Thomas, Lewis Richard, Great Western Railway Works, Swindon; and Ross House, Edinburgh Place, Weston-super-Mare.

1888. Thomas, Philip Alexander, 71 Aberdare Gardens, West Hampstead, London, N.W.

1874. Thomas, William Henry, 6 Delahay Street, Westminster, S.W.

1900. Thompson, George William, Chief Engineer, Messrs. W. Whiteley, 147 Queen's Road, Bayswater, London, W.

1875. Thompson, John, Highfield Boiler Works, Ettingshall, Wolverhampton. [*Boiler, Wolverhampton.*]

1900. Thompson, John Robert, 10 West Twenty-third Street, New York, United States; and Talbot House, Knowle, Bristol.

1883. Thompson, Richard Charles, Messrs. Robert Thompson and Sons, Southwick Shipbuilding Yard, Sunderland.

1887. Thompson, William Phillips, 6 Lord Street, Liverpool.

1900. Thomsett, Frank Dathan, Chief Engineer R.N., H.M.S. "Racoon," care of Postmaster General, London, E.C.

1900. Thomson, George, Natal Government Harbour Works, Port Natal, South Africa.

1875. Thomson, James McIntyre, Glen Tower, Great Western Road, Glasgow.

1868. Thomson, John, 3 Crown Terrace, Dowanhill, Glasgow.

1899. Thorburn, William, Luchana Mining Co., Apartado 45, Bilbao, Spain. [*Shoobred, Bilbao.*]

1893. Thornbery, William Henry, 36 Paradise Street, Birmingham. [*Thornbery, Birmingham.*]

1898. Thorneley, William, Works Manager, Great Central Railway, Gorton, Manchester.

1868. Thornehill, Robert, Messrs. Thornehill and Warham, Burton Iron Works, Burton-on-Trent.

1885. Thornley, George, Messrs. Buxton and Thornley, Waterloo Engineering Works, Burton-on-Trent.

1877. Thornton, Frederic William, Hull Hydraulic Power Co., Machell Street, Hull.

1882. Thornton, Hawthorn Robert, Lancashire and Yorkshire Railway, Horwich, near Bolton.

1876. Thornycroft, John Isaac, F.R.S., Messrs. John I. Thornycroft and Co., Steam Yacht and Launch Builders, Church Wharf, Chiswick, London, W. [*Thornycroft, London.* 7306.]

1882. Thow, William, Chief Mechanical Engineer, New South Wales Government Railways, Eveleigh, Sydney, New South Wales; (or care of Joseph Meilbek, 13 Victoria Street, Westminster, S.W.)

1900. Thumwood, Lewis Edward, Chief Engineer R.N., H.M.S. "Mohawk," care of Postmaster-General, London, E.C.

1885. Timmermans, François, Managing Director, Société anonyme des Ateliers de la Meuse, Liège, Belgium. [*Société Meuse, Liège.*]

1884. Timmis, Illius Augustus, 2 Great George Street, Westminster, S.W. [*Timmis, London.*]

1890. Titley, Arthur, Beechwood, Hartopp Road, Four Oaks, Sutton Coldfield, near Birmingham.

1875. Tomkins, William Steele, Messrs. Sharp Stewart and Co., Atlas Works, Glasgow; and 28 Victoria Street, Westminster, S.W.

1888. Topple, Charles James, 6 Blendon Terrace, Plumstead Common.

1894. Touch, John Edward, Selborne House, 11 Ironmonger Lane, London, E.C.

1883. Tower, Beauchamp, 5 Queen Anne's Gate, Westminster, S.W.

1889. Towler, Alfred, Messrs. Hathorn Davey and Co., Sun Foundry, Leeds.

1893. Townsend, Major C. Collingwood, R.A., Superintendent, Gun-Carriage Factory, Fatehgarh, North Western Provinces, India.

1890. Trail, John, Marine Superintendent, Knott's Prince Line of Steamers, Newcastle-on-Tyne.

1888. Travis, Henry, Superintending Engineer and Constructor of Shipping to the War Department, Royal Arsenal, Woolwich.

1889. Treharne, Gwilym Alexander, Pontypridd; and Aberdare.

1889. Trenery, William Penrose, Case Postale 106, Liège, Belgium.

1883. Trentham, William Henry, 39 Victoria Street, Westminster, S.W.

1876. Trevithick, Richard Francis, Locomotive and Carriage Superintendent, Japanese Government Railways, Kobe, Japan: (or care of Mrs. Mary Trevithick, The Cliff, Penzance.)

1887. Trier, Frank, Messrs. Brunton and Trier, 1 Great George Street, Westminster, S.W.

1896. Trotter, Alexander Pelham, Board of Trade, 8 Richmond Terrace, Whitehall, London, S.W.

1885. Trueman, Thomas Brynaly�, 6 Tregenna Terrace, St. Ives, Cornwall.

1887. Turnbull, Alexander, Messrs. Alexander Turnbull and Co., St. Mungo Works, Bishopbriggs, Glasgow. [*Valve, Glasgow.* Royal 4394.]

1885. Turnbull, John, Jun., 190 West George Street, Glasgow. [*Turbine, Glasgow.* Douglas 59.]

1894. Turner, Albert, Whitehouse Machine Works, Denton, near Manchester. [*Machines, Denton.* 205.]

1897. Turner, Alfred, Works Manager, Messrs. George Jones, Lionel Street, Birmingham.

1866. Turner, Frederick, Messrs. E. R. and F. Turner, St. Peter's Iron Works, Ipswich. [*Gippeswyk, Ipswich.*]

1882. Turner, Thomas, Messrs. Andrew Barclay, Sons and Co., Caledonia Works, Kilmarnock. [*Barclayson, Kilmarnock.* 10.]

1886. Turner, Tom Newsum, Vulcan Iron Works, Langley Mill, near Nottingham.

1876. Turney, Sir John, Messrs. Turney Brothers, Trent Bridge Leather Works, Nottingham. [*Turney, Nottingham.*]

1899. Turton, William Henry, Royal Gun Factories, Royal Arsenal, Woolwich.

1882. Tweedy, John, Messrs. Wigham Richardson and Co., Newcastle-on-Tyne.

1897. Twelvetrees, Walter Noble, 47 Victoria Street, Westminster, S.W.; and 91 Louisville Road, Tooting, London, S.W.

1856. Tyler, Sir Henry Whatley, K.C.B., Linden House, Highgate Road, London, N.W.

1896. Umney, Herbert Williams, 2 Auckland Road, Upper Norwood, London, S.E.

1899. Unsworth, Herbert George, Locomotive Engineer, Rhondda and Swansea Bay Railway, Swansea.

1900. Upward, Alfred Réné, 19 Old Queen Street, Westminster, S.W. [*Loftiness, London.*]

1898. Urié, Robert Wallace, London and South Western Railway, Nine Elms, London, S.W.

1899. Urié, William Montgomerie, Works Manager, Caledonian Railway, St. Rollox, Glasgow.

1898. Urwick, Arthur John, Messrs. C. Evans and Co., Piston Foundry, Worcester.

1880. Valon, William Andrew McIntosh, 140 and 141 Temple Chambers, Temple Avenue, London, E.C.; and Ramsgate. [*Valon, Ramsgate.*]

1895. Van Raalte, Joseph, General Manager, Royal Shipbuilding and Engineering Works, Flushing, Holland. [*Schelde, Flushing.*]

1885. Vaughan, William Henry, Royal Iron Works, West Gorton, Manchester. [*Vaunting, Manchester.* 5106.]

1897. Vaux, Walter, General Manager, Bradford Tramways and Omnibus Co., Northgate, Bradford. [*Omnibus, Bradford.*]

1862. Vavasseur, Josiah, 28 Gravel Lane, Southwark, London, S.E.; and Rothbury, Blackheath Park, London, S.E. [*Exemplar, London.*]

1900. Veen, Vernon Alfred Alexander ter, Engineer R.N., H.M.S. "Pidgeon," care of Postmaster General, London, E.C.

1899. Vernon, Charles Edward, London and India Docks Joint Committee, 109 Leadenhall Street, London, E.C.

1889. Vesian, John Stuart Ellis de, 20 New Bridge Street, Blackfriars, London, E.C. [*Biceps, London.*]

1865. Vickers, Albert, Messrs. Vickers, Sons and Maxim, River Don Works, Sheffield.

1861. Vickers, Thomas Edward, C.B., Messrs. Vickers, Sons and Maxim, River Don Works, Sheffield.

1856. Waddington, John, 35 King William Street, London Bridge, London, E.C. [Bank 518.]

1899. Waddington, Richard, 35 King William Street, London Bridge, London, E.C. [Bank 518.]

1898. Waddle, Hugh William, Managing Director, Waddle Patent Fan and Engineering Co., Llanmore Works, Llanelli.

1882. Wailes, George Herbert, Rounton, Watford, Herts.

1898. Wainwright, John William, British Thomson-Houston Co., 83 Cannon Street, London, E.C.

1888. Waister, William Henry, Locomotive and Carriage Running Department, Great Western Railway, Swindon.

1881. Wake, Henry Hay, Engineer to the River Wear Commission, Sunderland.

1882. Wakefield, William, 123 Rathgar Road, Dublin.

1892. Waldron, Patrick Lawrence, R.N.R., Rockville Cottage, Castletown Berehaven, Co. Cork, Ireland; and 24 St. Joseph's Road, Aughrim Street, Dublin.

1898. Walke, Charles Nicholas Eves, Inspector of Steam Boilers, Town Custom House, Bombay, India.

1890. Walkeden, George Henry, Great Boulder Proprietary Gold Mines, Kalgoorlie, Western Australia.

1898. Walker, Frederic James, General Manager, St. James' and Pall Mall Electric Light Co., Carnaby Street, Golden Square, London, W. [Licensable, London. Gerrard 5082.]

1875. Walker, George, 95 Leadenhall Street, London, E.C.

1890. Walker, Henry, 11 Oxford Terrace, Gateshead.

1894. Walker, Henry Claude, Messrs. R. Waygood and Co., Falmouth Road, Great Dover Street, London, S.E. [*Waygood, London.* Hop 760.]

1875. Walker, John Scarisbrick, Messrs. Walker Brothers, Pagefield Iron Works, Wigan; and 15 Park Crescent, Southport. [*Pagefield, Wigan.*]

1884. Walker, Sydney Ferris, 2 Kensington Gardens Square, London, W.

1876. Walker, Thomas Ferdinand, Ship's Log Manufacturer, 58 Oxford Street, Birmingham.

1890. Walker, William George, 47 Victoria Street, Westminster, S.W.

1878. Walker, Zaccheus, Jun., Fox Hollies Hall, near Birmingham.

1897. Wall, Charles Henry, Messrs. Lloyd and Lloyd, Coombs Wood, Halesowen, Birmingham.

1884. Wallace, John, Backworth Collieries, near Newcastle-on-Tyne.

1895. Wallace, Joseph, Manahambre Road, Princetown, Trinidad.

1884. Wallau, Frederick Peter, Superintendent Engineer, Union Steam Ship Co., Southampton.

1868. Wallis, Herbert, 239 Drummond Street, Montreal, Canada.

1893. Wallwork, Roughsedge, Union Bridge Iron Works, Charter Street, Manchester.

1891. Walmsley, John, General Manager, Messrs. J. and P. Coats, Ferguslie Thread Works, Paisley.

1865. Walpole, Thomas, Windsor Lodge, Monkstown, Co. Dublin.

1877. Walton, James, 112 Heathwood Gardens, Old Charlton, Kent.

1881. Warburton, John Seaton, 19 Stanwick Road, West Kensington, London, W.

1882. Ward, Thomas Henry, Mount Pleasant, Fentham Road, Gravelly Hill, Birmingham.

1864. Warden, Walter Evers, Phoenix Bolt and Nut Works, Handsworth, R.O., near Birmingham. [*Bolts, Birmingham.*]

1882. Wardle, Edwin, Messrs. Manning Wardle and Co., Boyne Engine Works, Hunslet, Leeds. [*Manning, Leeds.*]

1886. Warren, Frank Llewellyn, 134 Fenchurch Street, London, E.C. [*Collisions, London.*]

1899. Warren, Frederick Fridlezius, Managing Director, Messrs. Ross and Walpole, North Wall Iron Works, Dublin. [*Iron, Dublin.* 311.]

1885. Warren, Henry John, Jun., Cornwall Boiler Works, Camborne.

1885. Warren, William, Macequee, near Umtali, Manica, South Africa.

1897. Warren, William, Works Manager, Southwick Engine Works, near Sunderland.

1889. Warsop, Thomas, Coniston Copper Mines, Coniston, S.O., Lancashire.

1900. Watchurst, Charles Leese, 26 Basinghall Street, 16 Wool Exchange, London, E.C. [*London Wall.* 335.]

1881. Watkins, Alfred, 58 Fenchurch Street, London, E.C.

1890. Watkinson, William Henry, Professor of Motive Power Engineering, Glasgow and West of Scotland Technical College, 38 Bath Street, Glasgow.

1900. Watney, Thomas Savile, 32-34 Greek Street Chambers, Park Row, Leeds. [*Energy, Leeds.* 2229.]

1893. Watson, George, 39 Victoria Street, Westminster, S.W. [*Meterage, London.*]

1900. Watson, George, Managing Director, Horsfall Destructor Co., 5 Greek Street, Leeds.

1890. Watson, George Coglan, Manganese Bronze and Brass Co., St. George's Wharf, Deptford, London, S.E.; and 88 Tyrwhitt Road, Brockley, London, S.E.

1882. Watson, Henry Burnett, Messrs. Henry Watson and Son, High Bridge Works, Newcastle-on-Tyne. [*Watsons, Newcastle-on-Tyne.* 6517.]

1896. Watson, James Falshaw, 15 Shaw Lane, Headingley, Leeds. [*Inspection, Leeds.*]

1897. Watson, John B., 56 Devereux Drive, Seacombe, Birkenhead.

1898. Watson, John Warden, 122 Cannon Street, London, E.C.

1897. Watson, Thomas John, 32 Grainger Street West, Newcastle-on-Tyne.

1877. Watts, John, 8 Nelson Street, Bristol.

1897. Wearing, John Evenden, Swan Buildings, Edmund Street, Birmingham.

1886. Weatherburn, Robert, Locomotive Manager, Midland Railway Works, Kentish Town, London, N.W.

1894. Webb, Henry, Messrs. Joseph Webb and Co., Irwell Forge and Rolling Mills, Bury, Lancashire.

1884. Webb, Richard George, Messrs. Richardson and Cruddas, Byculla Iron Works, Bombay, India: (or care of Messrs. Richardson and Hewett, 101 Leadenhall Street, London, E.C.)

1890. Webster, John James, 39 Victoria Street, Westminster, S.W.

1887. Webster, William, 6 Oxley Road, Singapore, Straits Settlements.

1891. Weightman, Walter James, care of Messrs. King, King and Co., Bombay, India.

1888. Wellman, Samuel T., Wellman Seaver Engineering Co., New England Building, Cleveland, Ohio, United States.

1898. Wells, George James, 31 Whitworth Street, Manchester.

1886. Wesley, Joseph A., Clarke's Crank and Forge Works, Lincoln.

1882. West, Charles Dickinson, Professor of Mechanical Engineering, Imperial College of Engineering, Tokyo, Japan.

1895. West, Charles Herbert, Messrs. Henry H. West and Son, 5 Castle Street, Liverpool. [*Referee, Liverpool.* Central 5223.]

1898. West, Ernest Henry, Messrs. H. J. West and Co., Stamford Works, Southwark Bridge Road, London, S.E. [*Copperworm, London. Hop 879.*]

1876. West, Henry Hartley, Messrs. Henry H. West and Son, 5 Castle Street, Liverpool. [*Referee, Liverpool. Central 5223.*]

1894. West, James, P.O. Box 3010, Johannesburg, Transvaal, South Africa.

1894. West, John, Albion Iron Works, Miles Platting, Manchester.

1891. West, Leonard, Ravenhead Plate Glass Works, St. Helens, Lancashire.

1874. West, Nicholas James, Messrs. Nicholas J. West and Sons, 186 Gresham House, Old Broad Street, London, E.C. [*Unlapped, London.*]

1877. Western, Charles Robert, Broadway Chambers, Westminster, S.W. [*Donboues, London. Westminster 199.*]

1877. Western, Maximilian Richard, care of Colonel Western, C.M.G., Broadway Chambers, Westminster, S.W.

1895. Westmacott, Henry Armstrong, Messrs. John Spencer and Sons, Newburn Steel Works, Newcastle-on-Tyne.

1862. Westmacott, Percy Graham Buchanan, Sir W. G. Armstrong, Whitworth and Co., Elswick Engine Works, Newcastle-on-Tyne; and Rose Mount, Sunninghill, Ascot.

1880. Westmoreland, John William Hudson, Lecturer on Engineering, University College, Nottingham.

1888. Weyman, James Edwardes, 2 Mavesyn Place, Fairfield, Manchester.

1900. Whale, George, Locomotive Department, London and North Western Railway, Crewe.

1896. Wheeler, Percy, General Manager, Oldbury Railway-Carriage and Wagon Works, Oldbury, near Birmingham. [*Carriage Co., Oldbury.*]

1898. Wheelock, Jerome, Worcester, Massachusetts, United States.

1898. Whitaker, Alfred, Resident Locomotive Superintendent, Somerset and Dorset Joint Railway, Highbridge, R.S.O., Somersetshire.

1894. Whitby, Arthur George, Homelea, Great Missenden, R.S.O., Bucks.

1882. White, Alfred Edward, City Engineer, Hull.

1901. White, Alfred Francis, Superintendent Engineer, Nippon Yusen Kaisha, Tokyo, Japan.

1888. White, Sir William Henry, K.C.B., LL.D., D.Sc., F.R.S., Assistant Controller and Director of Naval Construction, Admiralty, Whitehall, London, S.W.

1900. Whitehead, Arthur, Messrs. James Armstrong and Co., 116 Queen Victoria Street, London, E.C. [*Tolamaco, London. Bank 5294.*]

1890. Whitehouse, Edwin Edward Joseph, Monkbridge Iron Works, Leeds.

1876. Whiteley, William, Holly Mount, Edgerton, Huddersfield.

1900. Whitmore, Frank Leonard, Messrs. Fraser and Chalmers, Erith, S.O., Kent.

1891. Whittaker, John, Messrs. William Whittaker and Sons, Sun Iron Works, Oldham.

1897. Whittell, Alfred Leighton, Surveyor, Lloyd's Register, 15 Bank Street, Fort, Bombay, India.

1878. Wicks, Henry, Messrs. Burn and Co., Howrah Iron Works, Howrah, Bengal, India: (or care of John Spencer, 121 West George Street, Glasgow.)

1897. Wicksteed, Charles, Stamford Road Works, Kettering.

1868. Wicksteed, Joseph Hartley, Messrs. Joshua Buckton and Co., Well House Foundry, Meadow Road, Leeds.

1891. Widdowson, John Henry, Britannia Works, Ordsal Lane, Salford, Manchester. [*Taps, Salford.*]

1897. Widdowson, John Henry, Jun., Britannia Works, Ordsal Lane, Salford, Manchester; and 25 Withington Road, Whalley Range, Manchester. [*Taps, Salford.*]

1878. Widmark, Harald Wilhelm, Helsingborgs Mekaniska Verkstad, Helsingborg, Sweden.

1889. Wigham, John Richardson, Messrs. Edmundsons, Stafford Works, 35 Capel Street, Dublin.

1881. Wigzell, Eustace Ernest, Billiter House, Billiter Street, London, E.C. [*Wigzell, London.*]

1890. Wildy, William Lawrence, 26 Petherton Road, Highbury, London, N.

1892. Wilkinson, Edward R., Harwell House, Fortis Green, Finchley, London, N.

1898. Wilkinson, George, Kirkside, Bilton, Harrogate. [146.]

1893. Williams, Arthur Edward, Resident Engineer, Dagenham Dock, Essex.

1883. Williams, Sir Edward Leader, Engineer, Manchester Ship Canal Co., 41 Spring Gardens, Manchester [*Leader, Manchester.* 688.]; and The Oaks, Altrincham.

1895. Williams, Henry Watson, Essex Street, Fremantle, Western Australia.

1884. Williams, John Begby, Central Marine Engine Works, West Hartlepool.

1901. Williams, John Norman Spencer, Hawaiian Commercial and Sugar Co., Kahului, Maui, T. H., Hawaiian Islands.

1885. Williams, Nicholas Thomas, Kelynack, St. Just, R.S.O., Cornwall.

1847. Williams, Richard (*Life Member*), Brunswick House, Wednesbury.

1890. Williams, Thomas David, 16 Lancaster Road, South Norwood, London, S.E.

1881. Williams, William Freke Maxwell, 20 Great St. Helen's, London, E.C.; and South Hill Bank, Gravesend.

1899. Williams, William Henry, Divisional Locomotive Superintendent, Great Western Railway, Swindon.

1889. Williams, William Walton, Gibraltar.

1897. Williams, Wyndham Henry, Messrs. Arthur Butler and Co., Mozufferpore, Tirhoot, India.

1896. Williamson, Joseph, São Paulo Railway, São Paulo, Brazil.  
1883. Williamson, Richard, Messrs. Richard Williamson and Son, Iron Shipbuilding Yard, Workington; and South Lodge, Cockermouth.  
1897. Wills, Frank, Messrs. W. and F. Wills, Perseverance Works, Bridgwater.  
1878. Wilson, Sir Alexander, Bart., Messrs. Charles Cammell and Co., Cyclops Steel and Iron Works, Sheffield.  
1882. Wilson, Alexander Basil, Maryville House, Malone, Belfast. [201.]  
1899. Wilson, Charles Louis Napoleon, Water Engineer and Surveyor, Town Hall, Bilston.  
1900. Wilson, Henry, Works Manager, Messrs. Walkers, Union Foundry, Maryborough, Queensland.  
1884. Wilson, James, Pacha, Chief Engineer, Daira Sanieh, Cairo, Egypt.  
1881. Wilson, John, Engineer, Great Eastern Railway, Liverpool Street Station, London, E.C. [*Wilson, Eastern, London.*]   
1863. Wilson, John Charles, care of Messrs. Dewar, 52 Frederick Street, Edinburgh.  
1892. Wilson, John Charles Grant, care of Messrs. Turner, Schon and Co., 101 Leadenhall Street, London, E.C.  
1890. Wilson, Joseph William, Principal of School of Practical Engineering, Crystal Palace, Sydenham, London, S.E.  
1890. Wilson, Robert James, care of Messrs. Thomas Wilson and Co., 10 and 12 Eastcheap, London, E.C.  
1873. Wilson, Thomas Sipling, Messrs. Holroyd Horsfield and Wilson, Larchfield Foundry, Hunslet Road, Leeds.  
1888. Wilson, Walter Henry, Messrs. Harland and Wolff, Belfast.  
1881. Wilson, Wesley William, Araganagh, Ballsbridge, County Dublin.  
1897. Wilson, William Campbell, Messrs. Charles Burrell and Sons, St. Nicholas Works, Thetford.  
1897. Wilson, William Henry, Newton Avenue, Longsight, Manchester.  
1899. Wilson, William Hope, 34 Maxwell Drive, Pollokshields, Glasgow.  
1891. Wimshurst, James Edgar, Messrs. William Esplen, Son, and Swainston, Billiter Buildings, 22 Billiter Street, London, E.C.  
1890. Winder, Charles Aston, Messrs. Winder Brothers, Royds Works, Attercliffe, Sheffield.  
1886. Windsor, Edwin Wells, 1 Rue du Hameau des Brouettes, Rouen, France.  
1900. Wingfield, Charles Humphrey, Messrs. John I. Thornycroft and Co., Church Wharf, Chiswick, London, W.; and Cleveland House, Chiswick Lane, London, W.

1890. Wingfield, Digby Charles, 61 Parliament Hill Road, Hampstead, London, N.W.

1887. Winmill, George, Locomotive Superintendent, North Western Railway, Lahore, India : (or Harewood, Junction Road, Romford.)

1898. Winn, Charles Reginald, Messrs. Charles Winn and Co., St. Thomas Works, Granville Street, Birmingham. [Winn, Birmingham. 366.]

1872. Wise, William Lloyd, 46 Lincoln's Inn Fields, London, W.C. [Lloyd Wise, London. Holborn 378.]

1884. Withy, Henry, Messrs. Furness Withy and Co., Middleton Ship Yard, West Hartlepool. [Withy, West Hartlepool. 4246.]

1878. Wolfe, John Edward, Apartado 450, Havana, Cuba.

1888. Wolff, Gustav William, M.P., Messrs. Harland and Wolff, Belfast.

1900. Wollaston, Thomas Roland, 29 Corporation Street, Manchester. [Parabola, Manchester.]

1881. Wood, Edward Malcolm, 3 Victoria Street, Westminster, S.W.

1887. Wood, Henry, Messrs. John and Edward Wood, Victoria Foundry, Bolton.

1880. Wood, John Mackworth, Engineer's Department, New River Water Works, Clerkenwell, London, E.C.

1868. Wood, Sir Lindsay, Bart., Southhill, near Chester-le-Street.

1884. Wood, Sidney Prescott, Semaphore Iron Works, Newport, Melbourne, Victoria : (or care of H. W. Little, Messrs. McKenzie and Holland, Vulcan Iron Works, Worcester.)

1898. Wood, Sydney Henry, Gas Light and Coke Works, Beckton, London, E.

1890. Wood, Thomas Royle, Talleres Felipe Schwarz, 1959 Calle Patricios, Buenos Aires, Argentine Republic : (or care of William Wood, 28 Hyde Grove, Chorlton-on-Medlock, Manchester.)

1896. Wood, Walter Chapman, care of Messrs. J. Buchheister and Co., Shanghai, China.

1890. Wood, William, 82 Upper Keunington Lane, London, S.E.

1882. Woodall, Corbet, Palace Chambers, 9 Bridge Street, Westminster, S.W.

1899. Woodhead, William Richard, 217 Inverness Place, Roath Park, Cardiff.

1897. Woods, Arthur Robert Thomas, Messrs. James Nelson and Sons, 41 North John Street, Liverpool.

1894. Woods, William Henry, Messrs. Hamilton Woods and Co., Liver Foundry and Engine Works, Ordsal Lane, Salford, Manchester. [Sluice, Manchester. 1962.]

1899. Woof, Thomas, Messrs. Alfred Herbert, 7 Leonard Street, Finsbury, London, E.C.

1898. Woollen, Thomas Henry, Managing Director, The New Jointless Rim Co., Arrol Works, Long Acre, Aston, Birmingham. [*Jointless, Birmingham. 2625.*]

1899. Wootton, John, Messrs. Wootton Brothers, Coalville Iron Works, Coalville, Leicester.

1895. Wordingham, Charles Henry, 19 Brasenose Street, Manchester. [5022.]

1887. Worger, Douglas Fitzgerald, Assistant Engineer, Southwark and Vauxhall Water Works, Southwark Bridge Road, London, S.E.

1874. Worsdell, Thomas William, Stonycroft, Arnside, near Carnforth.

1894. Worsdell, Wilson, Locomotive Superintendent, North Eastern Railway, Gateshead.

1877. Worssam, Henry John, Messrs. G. J. Worssam and Son, Wenlock Road, City Road, London, N. [*Massrow, London. King's Cross 677.*]

1886. Worthington, Charles Campbell, Messrs. Henry R. Worthington, Hydraulic Works, 145 Broadway, New York, United States: (or care of the Worthington Pumping Engine Co., 153 Queen Victoria Street, London, E.C.)

1888. Worthington, Edgar, (Secretary), The Institution of Mechanical Engineers, Storey's Gate, St. James's Park, Westminster, S.W.

1860. Worthington, Samuel Barton, Consulting Engineer, 33 Princess Street, Manchester; and Mill Bank, Bowdon, near Altringham.

1897. Worthington, William Barton, Chief Engineer, Lancashire and Yorkshire Railway, Manchester.

1899. Wotherspoon, James Douglas, Manager, Engineering Department, Great Grimsby Coal, Salt, and Tanning Co., Grimsby; and 39 Hainton Street, Grimsby.

1881. Wrench, John Mervyn, Chief Engineer, Indian Midland Railway, Jhansi, N.W. Provinces, India.

1900. Wright, Benjamin Hollingworth, Messrs. Bewick, Moreing and Co., Broad Street House, New Broad Street, London, E.C.

1897. Wright, Frederick George, Great Western Railway Works, Swindon.

1876. Wright, James, Messrs. Ashmore Benson Pease and Co., 181 Queen Victoria Street, London, E.C.

1867. Wright, John Roper, Messrs. Wright Butler and Co., Elba Steel Works, Gower Road, near Swansea.

1859. Wright, Joseph, Metropolitan Railway-Carriage and Wagon Co., Saltley Works, Birmingham; and The Gresham Club, London, E.C.

1895. Wright, William, 16 Great George Street, Westminster, S.W.; and Dudley House, 10 St. John's Hill Grove, New Wandsworth, London, S.W.

1871. Wrightson, Sir Thomas, Bart., M.P., Messrs. Head Wrightson and Co., Teesdale Iron Works, Stockton-on-Tees.

1891. Wroe, Joseph, 26 Park Avenue, Manchester, S.E.

1877. Wyvill, Frederic Christopher, 19 East Parade, Leeds.

1889. Yarrow, Alfred Fernandez, Isle of Dogs, Poplar, London, E.

1895. Yarwood, William James, Castle Dock Yard, Northwich. [74.]

1899. Yates, Joseph, Managing Director, Messrs. Matthews and Yates, Cyclone Works, Swinton, near Manchester. [*Cyclone, Swinton, Manchester. 1871.*]

1881. Yates, Louis Edmund Hasselts, Deputy Locomotive and Carriage Superintendent, North Western Railway, Lahore, India: (or care of Rev. H. W. Yates, 98 Lansdowne Place, Brighton.)

1899. Yates, Walter, Managing Director, Messrs. Matthews and Yates, Cyclone Works, Swinton, near Manchester. [*Cyclone, Swinton, Manchester. 1871.*]

1880. York, Francis Colin, Locomotive Superintendent, Buenos Aires and Pacific Railway, Junin, Buenos Aires, Argentine Republic: (or care of W. Hannay, 18 Portland Street, Leamington.)

1879. Young, George Scholey, Engineer, Thames Engineering Works, Iato Messrs. John Penn and Sons, Greenwich, London, S.E.

1874. Young, James, 4 Granville Road, Newcastle-on-Tyne. [*Aid, Newcastle-on-Tyne.*]

1879. Young, James, Salroyd, Thornlaw Road, West Norwood, London, S.E.

1892. Young, Robert, Engineer and Manager, Penang Steam Tramways, Penang, Straits Settlements.

1894. Young, Smelter Joseph, The Tempered Spring Co., Limited, Rockingham Street, Sheffield. [*Tempered, Sheffield. 354.*]

1899. Young, Thomas, 4 West Regent Street, Glasgow.

1887. Young, William Andrew, Messrs. Lobnitz and Co., Renfrew, near Paisley [*Lobnitz, Renfrew. 57, Paisley.*]; and Millburn House, Renfrew, near Paisley.

1881. Younger, Robert, Messrs. R. and W. Hawthorn Leslie and Co., St. Peter's Works, Newcastle-on-Tyne.

## ASSOCIATE MEMBERS.

1896. Abella, Juan, Buenos Aires and Belgrano Electric Tramways Co., 766 Calle Bolivar, Buenos Aires, Argentine Republic.

1898. Acfield, Wilfred Cosens, London Brighton and South Coast Railway, London Bridge, London, S.E.

1900. Adams, Albert Edward, Borough and Water Works Engineer, Chippenham.

1892. Adams, Sidney Rickman, P.O. Box 2221, Johannesburg, Transvaal, South Africa: (or care of Henry Adams, 3 Colville Square, Bayswater, London, W.)

1898. Adiassewich, Alexander Victorovitch, 5 Fen Court, London, E.C.

1900. Aitken, Thomas Martin, 140 Bath Street, Glasgow.

1900. Albrecht, John August, Constantia, Cape Town, Cape Colony.

1900. Alcock, Alfred Edwin, Messrs. Steel, Peech and Tozer, The Ickles, Rotherham.

1899. Alder, George Frederick, Managing Director, Excelsior Engineering Co., Stafford Works, Stroud, Gloucestershire. [*Excelsior, Bowbridge.*]

1900. Alderson, Charles Albert Heselton, Messrs. Allen, Alderson and Co., Gracechurch Street, Alexandria, Egypt; and Norland House, Ramleh, near Alexandria, Egypt.

1890. Alderson, George Alexander, Messrs. Allen, Alderson and Co., Alexandria, Egypt; and The Cloisters, Bulkeley, Alexandria, Egypt.

1899. Alexander, Joseph George, Borough Engineer's Office, Town Hall, Stratford, London, E.

1897. Allen, Justin Edward, Superintendent of Works, Royal Gardens, Kew, Surrey.

1894. Almond, Michael, District Locomotive Inspector, Cape Government Railways, Queenstown, South Africa: (or care of Robert Almond, 21 Hawthorn Road, South Gosforth, Newcastle-on-Tyne.)

1899. Ambrose, Sewell Powis, 35 Railway Road, Hollinwood, Manchester.

1900. Anderson, Athol Lancelet, A.C.E., Admiralty, H.M. Dockyard, Portsmouth.

1900. Andrew, Samuel Ernest, Electric Lighting Works, Cathall Road, Leytonstone, London, E.

1898. Andrews, Frederic Ernest, Brush Electrical Engineering Co., Falcon Works, Loughborough.

1897. Appleby, Harry Walton, The Bradford Club, Bradford.

1895. Armstrong, George Edwin, Municipal School of Science and Technology, Richmond Terrace, Brighton.

1899. Arnold, Arnold Attwood, Messrs. Ransomes, Sims and Jefferies, Orwell Works, Ipswich.

1898. Arnold, Frank William, Royal College of Science, Exhibition Road, South Kensington, London, S.W.; and 42 Summerfield Crescent, Birmingham.

1889. Ashford, John, Engineering Department, Northampton Institute, Clerkenwell, London, E.C.

1900. Asquith, William George, Messrs. Barry and Co., Barry Street, Bradford.

1896. Atkinson, Frederic, Albert Buildings, 49 Queen Victoria Street, London, E.C. [*Fixed, London.*]

1898. Atkinson, Henry, 97 Queen Victoria Street, London, E.C.

1897. Atkinson, Robert Ernest, Messrs. Ashwell and Nesbit, Great Central Street, Leicester. [*Plenum, Leicester. 190.*]

1901. Attock, Frederick William, Lancashire and Yorkshire Railway, Horwich, near Bolton.

1900. Aughtie, Herbert, South Western Polytechnic, Chelsea, London, S.W.

1897. Aylesbury, Thomas Antram, Durand House, 149A Clapham Road, London, S.W.

1899. Baber, Samuel Ernest, Superintendent Engineer, Menantic and Mendota Steamship Co., 52 Queen Square, Bristol.

1899. Backhouse, John, Messrs. Thomas Robinson and Son, Railway Works, Rochdale.

1900. Bailey, Harry Dorning, Messrs. W. H. Bailey and Co., 16 Fenchurch Street, London, E.C. [*Soldurios, London.*]

1899. Baker, Henry Gouldthorpe, Messrs. John Baker and Co., Brinsworth Works, Rotherham. [*Brinsworth, Rotherham. 89.*]

1897. Baker, John, Manager, Messrs. Tansley's Ice Works, Lower Fazeley Street, Birmingham.

1897. Baker, Tom William, 6 and 7 Broad Street House, London, E.C.

1900. Baldwin, Christopher Edmund, Whessoe Lane Works, North Eastern Railway, Darlington.

1901. Bale, John Henry Fooks, Tramways Department, Town Hall, Manchester.

1899. Ball, Edmund Bruce, Messrs. Reavell and Co., Ranelagh Works, Ipswich.

1897. Ball, John, Geological Survey Office, Public Works Department, Cairo, Egypt.

1897. Bamber, Herbert William, Daimler Motor Co., Daimler Works, Coventry.

1896. Barba, Alfonso G., care of Alexander Wilson, 172 Fenchurch Street, London, E.C.

1900. Barber, Edward Whitley, care of W. H. Fowler, 53 New Bailey Street, Manchester; and 42 Whitby Road, Fallowfield, Manchester.

1898. Barber, Thomas Walter, 17 and 18 Tothill Street, Westminster, S.W.

1899. Barker, Thomas Perronet, Messrs. Thomas Piggott and Co., Atlas Works, Birmingham.

1894. Baron, Francis Edward, 62 Market Street, Manchester. [*Horseless, Manchester.* 4218.]

1896. Baron, James Thomas, Resident Engineer, St. Pancras Electricity and Public Lighting Department, 47 Stanhope Street, London, N.W.

1901. Barrow, Louis, Messrs. Cadbury Brothers, Bournville, near Birmingham.

1898. Bartle, George William, Albion Brewery, Mile End, London, E.

1896. Barton, Andrew, Admiralty, 21 Craven Street, Strand, London, W.C.

1900. Barty, Alexander Douglas, Globe Works, Bankhall, Liverpool.

1899. Bateman, Arthur Henry, Westcombe Hill Works, Greenwich, London, S.E. [*Petrification, London.*]

1901. Bear, Maurice Mayhew, Messrs. Holden and Brooke, Sirius Works, West Gorton, Manchester.

1897. Beck, John, European Petroleum Co., Balachany, near Baku, Russia; (or care of S. W. Kendall, Montrose, Avenue Road, Weymouth.)

1897. Beckton, William Rushworth, 13 Brownlow Street, Holborn, London, W.C.

1897. Bedbrook, James Albert Harvey, care of Messrs. R. and W. Hawthorn, Leslie and Co., St. Peter's Works, Newcastle-on-Tyne.

1900. Begbie, Sydney Dawson, Managing Director, Begbie Manufacturing Co., Cumberland Park, Willesden Junction, London, N.W.

1899. Begbie, William, Messrs. Thomas Begbie and Co., P.O. Box 459, Johannesburg, Transvaal, South Africa.

1900. Bell, Charles Sever, 156 Sloane Street, London, S.W.

1898. Bell, William, Messrs. J. and E. Hall, Dartford.

1890. Bell, William Thomas, Mulgrave, St. Catherine's, Lincoln.

1901. Bennett, Marshall Handyside, General Electric Co., 71 Queen Victoria Street, London, E.C.

1900. Bentley, Thomas Sims, Messrs. C. Churchill and Co., 9-15 Leonard Street, Finsbury, London, E.C.

1898. Berry, Thomas, 53 Cowgate, Dundee. [*Steampump, Dundee.*]

1899. Beven, Alfred Nugent, Locomotive Superintendent, Junin Railway Co., Junin, Chile.

1899. Beves, Norman Ellison, Manager, Messrs. P. C. Middleton and Co., 10 North St. Andrew Street, Edinburgh. [*Resistance, Edinburgh.* 1205.]

1898. Bigger, Courtenay, Falmore Hall, Dundalk, Ireland.

1900. Bishop, Charles Herbert, The Gables, Egremont, Liverpool.

1897. Blakiston, Ralph, Superintending Engineer, Palatine Engineering Co.,  
10 Blackstock Street, Liverpool; and Waterloo, Liverpool.

1899. Blissett, Percival Thomas, Messrs. A. Guinness Son and Co., St. James' Gate Brewery, Dublin.

1896. Blumfield, Thomas William, Clifton Works, Clifton Road, Balsall Heath, Birmingham.

1901. Bond, John Thomas, National Boiler and General Insurance Co., 22 St. Ann's Square, Manchester.

1901. Bonniwell, Pereival Ormond, Chief Engineer, Law Accident Insurance Society, 215 Strand, London, W.C.

1896. Bosley, Walter Joseph, Wharf Superintendent, Corporation Wharf, Southampton.

1895. Boulden, Frederick, Technical Department, University College, St. George's Square, Sheffield.

1898. Bouts, Thomas, Messrs. Ernest Scott and Co., 2 Talbot Court, Gracechurch Street, London, E.C.; and 16 Althorp Road, Tooting, London, S.W.

1900. Boyd, William, Electric Traction Co., Central London Railway, Wood Lane, Shepherd's Bush, London, W.; and 11 Bonham Road, Lambert Road, Brixton Hill, London, S.W.

1898. Bradley, Godfrey Thomas, care of the Colonial Secretary, Colombo, Ceylon.

1896. Bremner-Davis, William Joseph, The Brae, Alexandra Road, Malvern.

1898. Brett, Alfred William, Albion Drop Forgings Co., Foleshill, Coventry.  
[*Albion, Great Heath.*]

1898. Briggs, Herbert, P.O. Box 31, Cape Town, Cape Colony.

1898. Brindley, Harry Samuel Bickerton, 3 Awoicho Akasaka, Tokyo, Japan.

1900. Britten, Thomas, Electric Construction Co., Wolverhampton.

1900. Brooks, Harry Gordon, Locomotive Works, Midland Railway, Kentish Town, London, N.W.

1901. Brown, John Pollock, Messrs. Denny and Co., Dumbarton; and 2 Parkgrove Terrace, Glasgow.

1901. Brown, Tom Edward Bennett, Managing Director, Messrs. Ross, Courtney and Co., 25 Ashbrook Road, Upper Holloway, London, N.

1895. Bruce, Robert Arthur, Brennan Torpedo Factory, Chatham.

1898. Bulfin, Ignatius, Municipal Offices, Bournemouth.

1900. Bull, Rowland Francis, Westminster Electric Supply Corporation, Eccleston Place, Belgravia, London, S.W.

1900. Bull, Thomas Palmer, Messrs. H. Pontifex and Sons, Farringdon Works, Shoe Lane, London, E.C.

1893. Burden, Alfred George, care of Messrs. Harvey and Co., P. O. Box 103, East London, Cape Colony: (or care of George N. Burden, Oakfield, Teignmouth.)

1895. Burn, George Francis, The Technical School, Cookridge Street, Leeds.

1890. Burne, Edward Lancaster, Messrs. Dickinson and Burne, Church Acre Iron Works, Guildford. [*Ploughshare, Guildford.* 40.]

1897. Burnside, Bertram W., B. G. J. P. Railway, Bhavnagar Para, Kathiawar, Bombay, India.

1899. Burt, Thomas Ross, 63 Finsbury Pavement, London, E.C.

1896. Butcher, Malcolm Henry, Messrs. F. A. Robinson and Co., 54 Old Broad Street, London, E.C.

1891. Butchers, Walter Edward, Messrs. Crompton and Co., Arc Works, Chelmsford.

1891. Buttenshaw, George Eskholme, Stoneleigh, Rotherham.

1900. Calderwood, William, Works Manager, Messrs. Palmer and Co., Stratford, London, E.

1898. Cameron, Robert Barr, Municipal School of Science and Technology, Richmond Terrace, Brighton.

1899. Cannell, William, 12 Heath Terrace, Leamington.

1896. Carolin, Edward Marlay, P. O. Box 80, Bloemfontein, Orange River Colony, South Africa.

1900. Carr, Harry Oswald, Commercial Gas Works, Stepney, London, E.

1898. Carr, James John William, Woodland Works, Grove Lane, Smethwick, Birmingham. [*Bells, Smethwick.* 2018.]

1900. Carrod, Henry, Messrs. L. Hugh Bristowe and Co., 47 Victoria Street, Westminster, S.W.

1900. Carstairs, Gilbert Langlois, 12 Kingswood Road, Seven Kings, Ilford.

1900. Carter, Samuel Arthur, Perak State Railways, Tapah Road, Taiping, Federated Malay States.

1900. Casebourne, Ambrose Cubitt, Ashfield House, Newcastle-on-Tyne.

1900. Cash, Ernest William, Messrs. H. Eckstein and Co., P.O. Box 149, Johannesburg, Transvaal, South Africa.

1899. Cater, John McIlvaine, British Westinghouse Electric and Manufacturing Co., Norfolk Street, Strand, London, W.C.; and Southdown, The Downs, Wimbledon.

1900. Catmur, Thomas Stucley, Inglenook, Romiley, Stockport.

1900. Cattell, William, Works Manager, Newport (Salop) Engineering Works, Newport, Salop.

1900. Cave, Henry, Ousebridge, Carlton, near Nottingham.

1897. Cerrito, Frank Henry, 71 Temple Row, Birmingham. [*Cerrito, Birmingham.*]

1895. Challenger, Godfrey Richard, Messrs. John Jameson and Son, Bow Street Distillery, Dublin.

1899. Chapman, Samuel, Mitchell's Emery Wheel Co., Mill Street, Bradford, Manchester.

1890. Chatwood, Arthur Brunel, Chatwood's Safe and Lock Co., 76 Newgate Street, London, E.C. [*Chatwood, London.* Holborn 835.]

1899. Cheffins, Harold William Joshua, Messrs. J. B. White and Brothers, Swanscombe, Kent.

1900. Chorley, Richard, Technical School, Stockport.

1896. Clare, Ernest, care of Sidney Straker, 110 Cannon Street, London, E.C.

1894. Clark, James Lester, 75 Buchanan Street, Glasgow.

1899. Clarke, Arthur Laver, Gas Engineer, Gas Works, Maldon, Essex.

1900. Clarke, Leigh Theophilus, Electrical Department, Great Central Railway, Woodford, Northants.

1895. Clatworthy, Walter Angove, 29 Lily Avenue, Jesmond, Newcastle-on-Tyne.

1898. Cleave, Arthur Harold Wyld, Royal Mint, London, E.

1901. Cleaver, William, Locomotive Engineer's Office, Port Talbot Railway and Docks, Port Talbot.

1897. Clegg, John Henry, Lower Lumb Mill, Heptonstall, Manchester.

1899. Clerk, Archibald, Works Manager, Messrs. Adolphus Barron and Co., Eastern Boulevard, Leicester. [*Shafting, Leicester.* 558.]

1900. Cluff, Richard, Southgate Engineering Co., New Southgate, London, N.; and Norfolk House, Muswell Avenue, Muswell Hill, London, N.

1898. Cobbold, Arthur Westhorp, The Homestead, Point Loma, San Diego, California, United States.

1899. Collins, William Lorenzo, 53 Berners Street, London, W.

1896. Comerford, Edward, Laragh, Victoria Park, Wavertree, Liverpool.

1897. Connell, William Percival, Calle Sanz 14, Minas de Rio Tinto, Huelva, Spain: (or care of W. G. Connell, 83 Cheapside, London, E.C.)

1896. Conradi, Julius Samuel, Messrs. John I. Thornycroft and Co., Church Wharf, Chiswick, London, W.

1900. Coombs, James Alger, Messrs. Hughes and Lancaster, Acrefair, Ruabon.

1899. Cooper, George, 61 Albion Street, Leeds.

1896. Cooper, Thomas, Cox Thermo Electric Co., St. Albans; and Spring Valley, Beaconsfield Road, St. Albans.

1900. Cooper, William James, 83 and 84 Bromsgrove Street, Birmingham. [*Thermal, Birmingham.*]

1895. Corby, Matthew, Messrs. Thomas Firth and Sons, Norfolk Works, Sheffield; and 160 Hagley Road, Birmingham.

1899. Corrie, John Bradford, Palace Chambers, 9 Bridge Street, Westminster, S.W.

1901. Cottrell, George, Messrs. Cottrell, Rose and Co., Eddington Iron Works, Hungerford. [*Cottrell, Hungerford.*]

1894. Coventry, Theodore, Messrs. Smith and Coventry, Gresley Iron Works, Ordsal Lane, Salford, Manchester. [*Gresley, Manchester.* 564.]

1895. Cowie, William, 48 Church Street, Coatbridge.

1896. Cox, Edward Henry, De la Vergne Refrigerating Machine Co., Foot of East 138th Street, New York, United States.

1897. Craig, Alexander, Messrs. Humber and Co., Coventry.

1900. Crawford, John Forcer, Washington Foundry, Fulton Street, Liverpool. [*Ferro, Liverpool.* Bootle 63.]

1897. Crooke, Walter, Jun., Frodingham, near Doncaster.

1887. Crosland, Delevante William, 1 Upper Addison Gardens, Kensington, London, W.

1901. Crow, Lewis, Messrs. J. and P. Coats, Ferguslie Thread Works, Paisley.

1900. Cruickshank, George Seymour, care of Messrs. C. C. Humby and Co., P.O. Box 150, Kalgoorlie, Western Australia.

1901. Cummins, Reginald Ernest, 1060 Chester Road, Stretford, Manchester.

1899. Cunliffe, Tom Arthur, British Electric Traction Co., Donington House, Norfolk Street, Strand, London, W.C.

1895. Cust, Leopold, Gas Traction Co., 22 Chancery Lane, London, E.C.; and 99 Onslow Square, London, S.W.

1894. Dadina, Hormuz Minocher, Messrs. St. Paul and Dadina, Graham's Buildings, Bombay, India.

1901. Dare, Arthur Newman, care of Vincenz Heinik, Prerau, Mähren, Austria.

1900. Darker, Alfred Henry, Messrs. J. Stone and Co., Deptford, London, S.E.

1894. Davey, Edward Ernest George, Polytechnic School of Engineering, 309 Regent Street, London, W.

1896. Davidson, John McKenzie, General Contractor, Karachi, India.

1898. Davies, Hugh, 37 Bryantwood Road, Highbury, London, N.

1896. Davis, Francis Myddleton, Works Manager, Messrs. R. and T. Elworthy, Elizabethgrad, Russia.

1900. Davis, Harry Charles, care of Druitt Halpin, 17 Victoria Street, Westminster, S.W.

1897. Davy, David, Jun., Messrs. Davy Brothers, Park Iron Works, Sheffield. [*Motor, Sheffield.*]

1890. Day, Arthur Godfrey, Director of Studies, Science Art and Technical Schools, Guildhall, Bath.

1899. Day, Claud Albert Stainton, Messrs. Dick, Kerr and Co., 110 Cannon Street, London, E.C.; and Grosvenor House, Isleworth.

1901. Dean, George, Messrs. Dick, Kerr and Co., 110 Cannon Street, London, E.C.

1899. De Ville, Martin, Ocean Accident and Guarantee Corporation, 36-44 Moorgate Street, London, E.C.

1898. Dickinson, William, Messrs. Dickinson and Burne, Church Acre Iron Works, Guildford. [*Ploughshare, Guildford.* 40.]

1898. Dobbs, Herbert Treadwin, Locomotive Carriage and Wagon Department, Barry Railway, Barry, near Cardiff.

1899. Dodridge, Frederick, 78 Beechdale Road, Brixton Hill, London, S.W.

1898. Donald, David Boswell, Manager, Messrs. John Freeman, Sons and Co., Penryn. [*Freeman, Penryn.*]

1898. Donne, Frederick Edward Mowbray, Locomotive Department, Midland Railway, Derby.

1896. Dossor, Herbert, Babcock and Wilcox Co., Oriel House, Farringdon Street, London, E.C.

1898. Douglas, William James, 141 Fenchurch Street, London, E.C. [*Blockading, London.*]

1899. Douglas, William Saunders, Consett Iron Works, Consett, R.S.O., County Durham.

1891. Douglass, Alfred Edwards, South Staffordshire Water Works, Paradise Street, Birmingham.

1896. Dowson, Erasmus Charles Head, Lattendales, Penrith.

1898. Dowson, Robert Manning, Felixstowe, The Park, Nottingham.

1900. Drake, Arthur James, General Manager, Kinsburgh Motor Construction Co., Granton, Edinburgh.

1900. Dresser, Charles, Messrs. Robertson and Outram, 28 Victoria Street, Westminster, S.W.

1900. Drewitt, William Henry, Messrs. J. and P. Coats, Ferguslie Thread Works, Paisley.

1895. Dronfield, James, Messrs. Dronfield Brothers, Atlas Works, Oldham.

1895. Dumas, Robert, Messrs. Siemens Brothers and Co., Woolwich.

1901. Duncan, John, Municipal Technical Institute, Romford Road, West Ham, London, E.

1895. Duncan, William, Locomotive Department, Cape Government Railways, Uitenhage, Cape Colony.

1894. Dunolly, Alan, H.M. Inspector of Factories, 19 Market Street, Huddersfield.

1901. Dunton, Ernest William, Borough Electrical Engineer, Electricity Works, Whitehaven; and 222 Trinity Road, Wandsworth Common, London, S.W.

1894. Eastmead, Frederic James, Messrs. Moffatt and Eastmead, 39 Victoria Street, Westminster, S.W. [*Hoistway, London.*]

1900. Edleston, Alfred Edward, Locomotive Superintendent, North Mount Lyell and Macquarie Harbour Railway, Kelly Basin, Tasmania.

1893. Edmondson, Alfred Richard, The Oaks, Moss Lane, Timperley, Altrincham.

1898. Edwards, Edgar Llewellyn, 125 Edmund Street, Birmingham.  
 1899. Edwards, James George Benjamin, Southern Higher Grade School, Bewerley Street, Leeds.  
 1900. Ellington, Guy, London Hydraulic Power Co., 9 Bridge Street, Westminster, S.W.; and Salvadore, Kingston Hill, Kingston-on-Thames.  
 1898. Ellis, Jesse, Invicta Works, St. Peter Street, Maidstone. [*Jesse Ellis, Maidstone. 2.*]  
 1900. Ellison, John, 26 Vernon Road, Leeds.  
 1900. Enock, Arthur Guy, 20 Church Road, Willesden, London, N.W.  
 1898. Enock, Donald, P. O. Box 471, Durban, Natal.  
 1899. Enock, Eric Cuthbert, Manager, Messrs. W. Ball and Co., Coombe Engine Works, Dartmouth.  
 1897. Epton, William Martin, North Carlton, Lincoln.  
 1900. Evans, Griffith Cooper, Messrs. Taite, Howard and Co., 63 Queen Victoria Street, London, E.C.  
 1899. Everson, Frederick Charles, Messrs. Bramwell and Harris, 5 Great George Street, Westminster, S.W.  
 1901. Evetts, William, Jun., Caledonian Railway Locomotive Works, St. Rollox, Glasgow; and 8 Prince Albert Terrace, Victoria Road, Helensburgh.  
  
 1899. Fairley, Frank, 9 Queen Street Place, London, E.C.  
 1895. Fawcett, Percy William, Whirlow Court, Sheffield.  
 1894. Fendick, Walter, Gas Works, Hemel Hempstead.  
 1896. Fforde, William John, 2 Glenview Terrace, Springfield Road, Belfast.  
 1900. Fiegehen, Edward George, Bedford Engineering Co., Bedford.  
 1894. Finlayson, David, Burnhead, Larbert, Stirlingshire.  
 1896. Firth, John, 25 Jowett Street, South Reddish, Stockport.  
 1894. Fitz-Gerald, John Frederick Gerald, care of El Señor Ingeniero, Departamento de Vias y Obras F.C.S., Buenos Aires, Argentine Republic.  
 1900. FitzHerbert, Arthur Hugh Fraucis, Electrical Department, Midland Railway, St. Pancras, London, N.W.; and 6 Gatcombe Road, Tufnell Park, London, N.  
 1895. Fleischer, Paul, Messrs. A. Guinness, Son and Co., St. James' Gate Brewery, Dublin.  
 1898. Fletcher, Harold Clarkson, Messrs. Johnson and Fletcher, P.O. Box 580, Bulawayo, Rhodesia, South Africa.  
 1892. Fletcher, Joseph Ernst, Messrs. Charles Cammell and Co., Cyclops Works, Sheffield.  
 1899. Flint, Leonard Robert, Babcock and Wilcox Co., Oriel House, Farringdon Street, London, E.C.

1895. Forbes, George Chichester, Locomotive Department, South Indian Railway, Negapatam, India.

1901. Forster, Andrew, Messrs. J. Samuel White and Co., Cowes, Isle of Wight.

1895. Foster, Edward Hornby, Messrs. John Foster and Son, Black Dike Spinning Mills, Queensbury, near Bradford.

1898. Fowler, Percy Merwood, P. O. Box 1876, Johannesburg, Transvaal, South Africa.

1901. Fox, Edmund John, Messrs. Crompton and Co., Arc Works, Chelmsford; and 1 Redcliffe Street, South Kensington, London, S.W.

1899. Fox, Frederick Joseph, Messrs. Bryan Corcoran, Back Church Lane, Whitechapel, London, E.; and 49 Farquhar Road, Upper Norwood, London, S.E.

1899. Fox, Henry Shoolbred, Manager, Messrs. G. J. Worssam and Son, Wenlock Road, City Road, London, N. [Massrow, London. King's Cross 677.]

1896. Fraser, Frank Hazell, Messrs. W. J. Fraser and Co., 98 Commercial Road East, London, E. [Fraser, Engineer, London. Avenue 4413.]

1899. Freeman, Walter William, Chetham Villa, Taylor Street, Dresden, Stoke-on-Trent.

1899. French, Arthur Houle, Chelmsford Electric Lighting Co., Arc Works, Chelmsford.

1897. Frerichs, Jacob Andrew, care of Consolidated Goldfields of South Africa, 12 Standard Bank Buildings, Darling Street, Cape Town, Cape Colony.

1900. Fripp, Steuart, Jun., Natal, Rio Grande do Norte, Brazil.

1897. Furness, Charles, Borough Electrical Engineer, Devonport Corporation Electricity Works, Newport Street, Stonehouse, Plymouth.

1900. Furnivall, William Henry Graham, care of H. B. Marshall, P.O. Box 127, Cape Town, Cape Colony.

1899. Gale, Robert Harry, 38 Scarsdale Villas, Kensington, London, W.

1896. Gallé, William Alexandre, Locomotive Department, Great Central Railway, Gorton, Manchester.

1900. Garland, Frederick Joseph, Birmingham Corporation Water Department, Broad Street, Birmingham.

1896. Garratt, James Herbert, Messrs. Boustead Brothers, Colombo, Ceylon.

1896. Garrett, Easton, Messrs. Bailey, Walker and Co., 456 Calle Cuyo, Buenos Aires, Argentine Republic.

1890. Garrett, Frank, Jun., Messrs. Richard Garrett and Sons, Leiston Works, Leiston, R.S.O., Suffolk.

1898. Garvey, Richard Godfrey Hamilton, Messrs. Bowes, Scott and Western, Bridge Road, Battersea, London, S.W.

1900. Gash, Lumley Clifton, Works Manager, Messrs. William Foster and Co., Lincoln.

1898. Gass, John, Engineer's Office, The Tower Bridge, 9 Horselydown Lane, London, S.E.

1900. Gaston, Alfred Benjamin, care of Archibald Little, Shanghai, China.

1901. Gawthorne, William Arthur, Kohinoor Mills Co., Bombay, India.

1900. George, James MacNaughten, Gourepore Co., Gourepore, near Calcutta, India.

1899. Gibbins, John Ernest, Shoreham Saw Works, White Croft, Sheffield.

1901. Gibbons, James Olliff Griffits, General Manager, Messrs. George Hill and Co., Trafford Electric Works, Cornbrook, Manchester. [*Commutator, Manchester.* 2920.]

1900. Gibson, George Henry, care of D. Home Morton, 95 Bath Street, Glasgow; and 84 Buccleuch Street, Garnethill, Glasgow.

1900. Gilling, Arthur Hewitt, Messrs. Mitrovich Brothers, Iquique, Chile.

1900. Ginders, Ernest Marsh, Managing Director, Cleveland Works, Cleveland Street, Birkenhead. [*Construct, Birkenhead.* 280.]

1899. Girvan, William, Sandakan Engineering Works, Sandakan, British North Borneo.

1896. Given, Ernest Cranston, Messrs. Priestman and Co., Philadelphia, Pennsylvania, United States; and The Lodge, Aigburth, Liverpool.

1900. Godson, Edward Harold, Locomotive Department, London and North Western Railway, Crewe; and Cheadle House, Cheadle, Cheshire.

1896. Goffe, Edward, De Beer's Consolidated Mines, Kimberley, South Africa.

1898. Golding, Henry Albert, Messrs. Bryan Donkin and Clench, 55 Southwark Park Road, Bermondsey, London, S.E.

1900. Goodman, Alfred Christian, General Manager, Patent Enamel Co., Selly Oak, Birmingham. [*Original, Selly Oak.*]

1898. Gordon, James, 52 Lime Street, London, E.C. [*Gordolobo, London.*]; and 23 St. James' Mansions, West End Lane, West Hampstead, London, N.W.

1897. Gordon, John Wilton, Messrs. John Gordon and Co., Dashwood House, 9 New Broad Street, London, E.C.

1901. Gore, Herbert Reginald, Messrs. Norris and Henty, 36 Upper Thames Street, London, E.C.

1899. Goulstone, Ernest Edwin, Superintendent, Water and Sewage Works, Cawnpore, India.

1898. Graham, Hubert Berger, Linden House, Gough Road, Edgbaston, Birmingham.

1900. Graham, Walter, Managing Director, Messrs. John Hastie and Co., Kilblain Engine Works, Nicholson Street, Greenock. [*Hastie, Greenock.* 133.]

1897. Grant, Hector, 92 West Regent Street, Glasgow.

1896. Grant, William, Messrs. Workman, Clark and Co., Engine Works, Queen's Road, Belfast.

1896. Gray, Alexander Cuthill, Assistant Locomotive Superintendent, Rio Grande do Sol Railway, Rio Grande do Sol, Brazil.

1899. Green, John Singleton, Municipal Offices, Haslingden, near Manchester.

1900. Greene, Frank Arnold, Messrs. Henry Greene and Co., 22 Martin's Lane, London, E.C. [*Three Keys, London.* Bank 5827.]

1900. Griffiths, William John, Messrs. McKenzie and Holland, 61 Sinclair Road, West Kensington, London, W.

1900. Grimley, William Richard Nash, Chief Engineer, Alliance Electrical Co., 137 Regent Street, London, W.

1893. Gritton, Joseph, Elmdon, Newton Lane, Hoole, Chester.

1895. Groundwater, Samuel, Messrs. S. C. Farnham and Co., Old Dock, Shanghai, China.

1897. Grove, Harry, Messrs. Willey and Co., Exeter; and 18 Adam Street, Adelphi, London, W.C.

1895. Groves, Montague, Grand Manica Development Co., Umtali, Rhodesia, South Africa.

1901. Guthrie, Allan, Messrs. L. Sterne and Co., Crown Iron Works, Glasgow.

1894. Hadengue, Charles Benjamin, Messrs. Carew and Co., Rosa Sugar Works, Rosa, North Western Provinces, India.

1899. Hadley, William Pearce Holbrow, Dhendi Tea Estate, Borjuli P.O., Tezapore, Assam, India.

1895. Haines, Charles James, Southampton Water Works, Otterbourne, near Winchester.

1896. Hall, Benjamin James, 39 Victoria Street, Westminster, S.W.

1894. Hall, Robert Frederick, Ferndale, Church Road, Moseley, Birmingham.

1897. Halsey, Charles Turner, Haslam Foundry and Engineering Co., Derby; and 106 Uttoxeter New Road, Derby.

1894. Hardy, William, Woodview, Bessbrook, County Armagh, Ireland.

1898. Harling, William, 12 Derwent Road, Lancaster.

1897. Harlow, Bernhard Schäffer, Messrs. Robert Harlow and Son, Heaton Norris Brass Works, Stockport.

1901. Harris, Henry Evans, Manager, Messrs. Massey and Co., Madras, India.

1894. Harris, Herbert Nelson, St. Michael's Foundry, Bridport.

1901. Harris, William Robert Alexander, Messrs. Thomas and Green, Soho Paper Mills, Wooburn, Bucks.

1899. Harwood, James Henry, Edwards' Air Pump Syndicate, 3 Crown Court, Old Broad Street, London, E.C.

1897. Harwood, Robert Henry, Howrah Jute Mills, Seebpore, Calcutta, India.

1900. Haskew, Frederick John Thomas, Messrs. Lloyd and Lloyd, Coombs Wood Tube Works, Halesowen, near Birmingham; and High Street, Stourbridge.

1900. Haughton, George Bayly, Messrs. Haughton and Co., 6 Lombard Court, London, E.C. [*Haughnot, London.*]

1896. Hawes, David Marc Andrew Graham, Bourne Engineering Co., 19 and 21 Queen Victoria Street, London, E.C.

1897. Hawes, William Fox, Jun., Messrs. Kincaid, Waller and Manville, 29 Great George Street, Westminster, S.W.

1897. Hawkins, Thomas Spear, Messrs. Anderson, Rowe and Co., Rua Nova dos Princecas, Caixa 46, Bahia, Brazil.

1900. Hawksworth, Frederick Sydney, Messrs. John Spencer and Co., Globe Tube Works, Wednesbury; and 60 Winter Street, Sheffield.

1900. Haywood, Arthur Robert, Locomotive Department, Great Central Railway, Gorton, Manchester.

1896. Heath, Charles Lewis Eclair, Municipal Technical School, Park Street, Hull.

1897. Hemingway, Alfred, Great Southern Railway, Albany, Western Australia.

1894. Henderson, Arthur James, 29 Westbourne Park Villas, Paddington, London, W.

1899. Hepworth-Collins, Walter, care of Messrs. Edward Wihl and Co., 17 Nicholas Street, Manchester. [*Collins, care Astra, Manchester.*]

1898. Herschmann, Arthur Julius, care of Adams Co., 59 Broadway, New York, United States.

1900. Hicks, Fredrick George, Messrs. F. G. Hicks and Co., South Quay, St. Sampson's, Guernsey.

1899. Hildage, Henry Thomas, Contractor's Office, Baker Street to Waterloo Railway, Victoria Embankment, London, S.W.

1898. Hill, Alfred Percy, 144 Machon Bank, Nether Edge, Sheffield.

1898. Hill, Joseph, Messrs. Clark and Aiton, 25 Laurence Pountney Lane, London, E.C.

1897. Hill, Walter Charles, 62 High Road, Kilburn, London, N.W.

1898. Hirst, George Frederick, Charlotte Street, Ilkeston, Nottingham.

1901. Hislop, George Robertson, Jun., Engineer, Corporation Gas Works, Blackstoun Road, Paisley.

1899. Hitchins, Charles Faunce, 25 Victoria Street, Westminster, S.W.; and Junior Constitutional Club, Piccadilly, London, W.

1895. Hockley, Norman Julius, care of Michael Longridge, 12 King Street, Manchester.

1900. Hodgson, George Henry, P.O. Box 616, Sydney, New South Wales.  
1898. Hodgson, Richard Broom, 54 Westfield Road, King's Heath, Birmingham.  
1901. Hodsdon, George Charles, Messrs. Bryan Donkin and Clench, 55 Southwark Park Road, Bermondsey, London, S.E.  
1901. Hollick, Aubrey Samuel, South Fambridge, Rochford, Essex.  
1899. Hollingsworth, Allen Alexander, Messrs. Henry Bessemer and Co., Carlisle Street East, Sheffield.  
1896. Hollingsworth, Edward Massey, St. Helens Corporation Electricity Works, St. Helens, Lancashire.  
1899. Holmes, Harry, City Engineer's Office, Birmingham.  
1898. Holroyd, Victor Avison, Works Manager, Messrs. Rudge-Whitworth, Coventry; and Royd Lodge, Earlsdon, Coventry.  
1898. Honiball, Charles Roland, Maritime Engine Works, 10 Great Mersey Street, Liverpool. [*Honiball, Liverpool. Central 5755.*]  
1895. Horner, Joseph Gregory, 17 Vernon Terrace, Twerton-on-Avon, Bath.  
1899. Horsnaill, William Owen, Messrs. Crompton and Co., Arc Works, Chelmsford.  
1900. Howell, Edwin James, Alliance Electrical Co., 137 Regent Street, London, W.  
1899. Hughes, Francis Edward Harold, care of G. T. Harrap, 5 Budge Row, Cannon Street, London, E.C.  
1898. Hughes, George Henry, 97 Queen Victoria Street, London, E.C.; and 3 Marischal Road, Lee, Lewisham, London, S.E.  
1900. Humphrey-Moore, Montague George Alfred, New River Company, Rosebery Avenue, London, E.C.; and 5 Webster Gardens, Ealing, London, W.  
1899. Humphreys, William Henry, Manager, York Water Works, Lendal Hill, York. [42.]  
1899. Hunt, Henry, Messrs. G. J. Worssam and Son, Wenlock Road, City Road, London, N.; and Cotsford, Uplands Park, Enfield.  
1900. Hutchinson, Richard John, Chief Engineer, Messrs. Schweppes, The Hyde, London, N.W.  
1898. Inglis, William Rowland Hugh, Redbourn Hill Iron and Coal Co., Frodingham, near Doncaster.  
1897. Ironside, William Allan, Messrs. Ironside, Son and Co., 1 Gresham Buildings, Guildhall, London, E.C. [*Ironside, London.*]  
1897. Irvine, Archibald John, 90 Marchmont Crescent, Edinburgh.  
1896. Issigonis, George Demos, The D. Issigonis Works, Smyrna, Turkey in Asia.  
1900. Ito, Kumezo, Mitsu Bishi Dockyard and Engine Works, Nagasaki, Japan.

1899. Jackling, Daniel C., Republic Consolidated Gold Mining Co., Republic, Washington, United States.

1898. Jackson, Ernest, Westfield, Cornwall Road, South Tottenham, London, N.

1900. Jackson, Harold Drinkwater, Manager, Messrs. Barr and Stroud, 250 Byres Road, Glasgow; and Westdel, Dowanhill, Glasgow.

1898. Jackson, Harry Loxton, Messrs. Jackson and Brother, Wharf Foundry, Bolton. [*Jackson, Bolton.* 34.]

1898. Jackson, Robert Hiram, Messrs. Schäffer and Budenberg, Whitworth Street, London Road, Manchester; and 90 Elizabeth Street, Cheetham, Manchester.

1898. James, Henry Haughton Rhodes, 13 Victoria Street, Westminster, S.W.

1898. James, William Henry, University College of South Wales and Monmouthshire, Cardiff.

1893. Jenkin, Charles James, Urban District Council, Walton-on-Thames.

1897. Johns, Cosmo, Messrs. Vickers, Sons and Maxim, River Don Works, Sheffield.

1897. Johnson, George, Messrs. Johnson and Fletcher, P.O. Box 580, Bulawayo, Rhodesia, South Africa.

1898. Johnson, Walter Wroe, Castleton Foundry and Engineering Works, Armley Road, Leeds.

1900. Johnston, Charles Morison, Borough Electrical Engineer, Electricity Works, Shrewsbury.

1890. Jones, Arthur Dansey, Locomotive Department, Lancashire and Yorkshire Railway, Horwich, near Bolton.

1900. Jones, Frank Harding, 142 Palace Chambers, 9 Bridge Street, Westminster, S.W.

1900. Jones, Stanley Hunter, Commercial Gas Works, Stepney, London, E.

1896. Jones, Thomas Gilbert, The Technical School, Mount Pleasant, Swansea.

1901. Jones, William Edwin, Messrs. Anderson, Weber and Smith, New Hibernia Wharf, London Bridge, London, S.E.

1889. Joy, Basil Humbert, 85 Gracechurch Street, London, E.C.; and 118 Broadhurst Gardens, West Hampstead, London, N.W.

1899. Joyce, Thomas Walter, Council Offices, Llandudno.

1900. Keatinge, Sherbrooke Augustus John, Indian State Railways, Lucknow, India.

1899. Kempt, Alfred Rodney, R.N., 13 Downs Road, Clapton, London, N.E.

1899. Kensington, John Charlton, Resident Engineer, San Salvador Railway and Works, Astillero, Provincia de Santander, Spain.

1898. Kerr, James B., Clarkson and Capel Steam Car Syndicate, Deverell Street, Great Dover Street, London, S.E.

1900. Kersey, Alfred Thomas John, 17 Goddard Avenue, Swindon.

1899. Kershaw, Grindrod, Rochdale Municipal Technical School, Nelson Street, Rochdale.

1897. Ketley, Charles Bosworth, 128 Colmore Row, Birmingham. [*Invent, Birmingham.* 1132.]

1897. King, Andrew, 1 St. Ann's Hill Road, Nottingham.

1893. Kirk, Percy Roebuck, Hackney Technical Institute, Cassland Road, London, N.E.

1896. Kitto, William Henry, Morvah, Hartington Road, Grove Park, London, W.

1901. Knight, Arthur Henry, Veile Cotton Spinnery, Veile, Denmark.

1901. Knottesford-Fortescue, John Nicholas, Messrs. Forster, Brown and Rees, Guildhall Chambers, Cardiff.

1897. Lacy-Hulbert, Charles Edward, 45 Rue Henri Maus, Brussels, Belgium. [*Hulbert, Bruxelles.* 3723.]

1895. Larard, Charles Edward, The Technical College, Huddersfield.

1897. Larmuth, John Hamilton, Messrs. Thomas Larmuth and Co., Todleben Iron Works, Unwin Street, Cross Lane, Salford, Manchester; and 452 Eccles New Road, Weaste, near Manchester.

1898. Larmuth, William Oliver, Messrs. Thomas Larmuth and Co., Todleben Iron Works, Unwin Street, Cross Lane, Salford, Manchester; and Denstone Road, Claremont Estate, Pendleton, Manchester.

1899. Lash, Horatio William, Manager, Albion Works, Sheffield.

1896. Lawson, Harry John, 40 Holborn Viaduct, London, E.C.

1893. Lea, Arthur Henry, Messrs. Lea and Warren, Kettering.

1897. Leitch, Archibald, 40 St. Enoch Square, Glasgow. [*Tracing, Glasgow.* Royal 5197.]

1898. Leonard, Peter, 75 Victoria Road, Great Crosby, Liverpool.

1901. Lester, John Milner, Messrs. Joseph Baker and Sons, Willesden Junction, London, N.W.; and 3 Hindes Road, Harrow.

1901. Livesey, Robert Martyn, Messrs. Topham, Jones and Railton, H.M. Dockyard Extension, Gibraltar.

1900. Locket, Athol, Jokai Tea Co., Panitola, Dibrugarh, Assam, India.

1895. Lougbottom, John Gordon, Glasgow and West of Scotland Technical College, 38 Bath Street, Glasgow.

1900. Longley, Henry Banks, Engineer, Moss Side Urban District Council, Moss Side, Manchester.

1898. Love, Robert Templeton, Royal Bank House, Stewarton, R.S.O., Ayrshire.

1896. Lovell, Samuel George, Stickney, Boston.

1900. Lund, Harry, Messrs. Samuel Lund and Sons, Midland Foundry, Keighley.

1898. Lund, John, Messrs. Ashwell and Nesbit, 12 Great James Street, Bedford Row, London, W.C.

1901. Lyddon, George Edward, 3 Belgrave Road, Ilford.

1897. MacIvor, Alexander, Messrs. Potter and Co., Hollins Paper Mills, Darwen.

1901. Main, George Peet, Parade, Leamington.

1900. Main, John Palmer Scott, Assistant Inspecting Officer of Railways, Board of Trade, 1 Whitehall, London, S.W.

1896. Mansfield, Alfred, Messrs. Mansfield and Sons, 9 Second Line Beach, Madras, India. [*Gaslight, Madras.*]

1899. Mansfield, James Francis, Central London Railway, Shepherd's Bush Depôt, London, W.

1897. Mansfield, Walter, Messrs. Mansfield and Sons, 9 Second Line Beach, Madras, India. [*Gaslight, Madras.*]

1900. Marks, Gordon Cumming, care of Percy J. Neate, 268 High Street, Rochester.

1899. Marshall, Launcelet Paul, City Engineer's Office, Guildhall, Norwich.

1900. Marshall, Thomas, Rose Villas, Walsall Road, Darlaston, Wednesbury.

1896. Martin, George Best, 6 Sycamore Road, Handsworth, Birmingham.

1899. Martin, John, 11 Danemere Street, Lower Richmond Road, Putney, London, S.W.

1901. Martyn, Sarsfield William, District Asylum, Mullingar, Co. Westmeath, Ireland.

1900. Massey, Edward, Dallam Forge, Warrington.

1895. Massey, Leonard Fletcher, Messrs. B. and S. Massey, Openshaw, Manchester. [*Masseys, Openshaw.* 300.]

1900. Mate, Walter Edwin, Messrs. Pickering's, Globe Elevator Works, Stockton-on-Tees.

1899. Maw, Henry, 17 Victoria Street, Westminster, S.W.

1899. McAll, Henry Wardlaw, care of R. L. McAll, Johns Hopkins University, Baltimore, Maryland, United States.

1899. McBean, John, East Rand Proprietary Mines, Boksburg, Transvaal, South Africa.

1899. McCormack, Arthur John, Griffiths Cycle Corporation, 33 Earl Street, Coventry.

1896. McCormack, William John, Electric Lighting Station, Walthamstow, London, N.E.

1899. McDunn, Howard A., Chief Engineer, Royal Courts of Justice, Strand, London, W.C.; and 44 Effingham Road, Lee, London, S.E.

1894. McGeorge, James, Bombay Burmah Trading Corporation, Rangoon, British Burmah, India.

1898. McGregor, John, Messrs. Murray and Paterson, Coatbank Engine Works, Coatbridge.

1901. McKerlie, James, Resident Engineer, Strawberry Road Electricity Works, Salford, Manchester.

1900. McLaren, John Alexander, 18 Brudenell Avenue, Leeds.

1891. McMeekin, Adam, Cogry Flax Spinning Mills, Doagh, R.S.O., Co. Antrim, Ireland.

1899. McTaggart, John, Superintendent and Engineer, Ashpit Cleansing and Destructors' Department, Hammerton Street, Bradford.

1900. Meek, George Thomas, Electric Lighting Works, Townmead Road, Fulham, London, S.W.

1897. Meggitt, George Teale, Messrs. Samuel Meggitt and Sons, Hamilton Road, Sutton-in-Ashfield, Nottingham.

1895. Messer, Edgar Harrisson, Consolidated Goldfields of South Africa, 8 Old Jewry, London, E.C.

1899. Middleton, Harry Herbert, 30 Dalhousie Square South, Calcutta, India.

1894. Mills, Arthur Edwin, 12 Canonbury Park S., Canonbury, London, N.

1899. Mills, Joseph Amos, Salisbury and Jubilee Gold Mining Co., P.O. Box 1122, Johannesburg, Transvaal, South Africa.

1897. Mills, Samuel James Augustus, Belgrave Mills, Darwen.

1898. Mindo, Arnold Waldemar, Chief Engineer, Gloucester Railway Carriage and Wagon Works, Gloucester.

1893. Mitchell, James Frederick Bruce, Messrs. J. F. B. Mitchell and Co., Mazagon Iron Works, Bombay, India.

1896. Mitton, Thomas Evans, Messrs. Hunt and Mitton, Crown Brass Works, Oozells Street North, Birmingham. [Mitton, Birmingham. 394.]

1894. Monckton, Charles John, Phoolultah Tea Estate, Sagurnal Post Office, Sylhet, Assam, India.

1896. Moncrieff, Robert Wighton, The Grange, Stoke Goldington, Newport Pagnel.

1900. Moore, George Edward, Mayfield, Grange Road, Sutton, Surrey.

1895. Moore, Thomas Lamb, Messrs. James Moore and Sons, Millfield Foundry, Belfast. [Moore, Millfield, Belfast. 466.]

1901. Morris, Robert Edmund, New River Water Works, Finsbury Park, London, N.

1898. Morris, William Joseph, Sheepbridge Iron Works, Chesterfield.

1900. Morton, Duncan Anderson, Errol Works, Errol, R.S.O., Perthshire.

1900. Morton, John Henry, Sola Works, Ferro Carril del Sud, Buenos Aires, Argentine Republic.

1897. Moule, Frederick Oswald, Messrs. Ruston, Proctor and Co., Sheaf Iron Works, Lincoln.

1893. Mountain, Benjamin, South Parade, Leeds.

1895. Mount-Haes, Andrew, Humboldt Engineering Works, Kalk, near Cologne, Germany.

1893. Moylan, William Morgan, care of Messrs. Grindlay and Co., Calcutta. India.

1899. Muirhead, David, Kirkintilloch, Glasgow.

1899. Munn, John Adam, Messrs. Lewis Jones and Co., care of Messrs. Octavius Steel and Co., 14 Old Court House Street, Calcutta, India.

1898. Munyard, Alfred, 15 Princes Street, Pollokshields, Glasgow.

1894. Murphy, Edward Owen, R.N.R., Messrs. Bailey and Murphy, 17 Praya Central, Hong Kong, China.

1897. Nakagawa, Goeokichi, Chief Engineer, Tokyo Gas Co., Tokyo, Japan.

1900. Naylor, Joe, Messrs. Elkanah Hoyle and Sons, Waterside Works, Halifax.

1899. Neal, Robert Henry Bennett, Bolitho Bank Chambers, Princess Square, Plymouth. [*Output, Plymouth.* 594.]

1900. Neilson, Robert Morrison, Messrs. Marks and Clerk, 25 Cross Street, Manchester.

1899. Nettlefold, Godfrey, Messrs. Nettlefolds, Heath Street, Birmingham. [*Nettlefolds, Birmingham.* 2086.]

1896. New, Alfred Wilmot, 3 Church Passage, Guildhall, London, E.C.

1896. Newell, Ernest, Messrs. Ernest Newell and Co., Stockwith-on-Trent, Gainsborough. [*Woods, Misterton.*]

1897. Newman, Reginald William, Messrs. John Aird and Sons, Birmingham Corporation Water Works, Northfield, Birmingham.

1896. Nicholls, Percy, Oak Villa, Pontefract.

1894. North, Horace, St. George's Engineering Works, Trafalgar Street, Brighton.

1897. Norton, Arthur, Dunwich, Stanmore Road, Edgbaston, Birmingham.

1899. Norton, Samuel Joseph, 89 Church Street, Little Lever, Bolton.

1899. Oates, Arthur Job, 90 Franchise Street, Wednesbury.

1900. Ockenden, Maurice Albion, Jun., Messrs. Duke and Ockenden, Ferry Wharf, Littlehampton.

1898. Ogden, Cuthbert Charles, 112 St. Edmund's Terrace, Rochdale.

1898. Oldham, Harry George Vincent, Merlewood, Atbara Road, Teddington, S.O., Middlesex.

1900. O'Reilly, Francis Joseph, Locomotive Department, London Brighton and South Coast Railway, Brighton.

1899. Osburn, George Victor, Messrs. Topham, Jones and Railton, Gibraltar.

1899. Oswald, George Herbert, Winsley Chase, near Bradford-on-Avon.

1897. Page, Henry, 1 St. Stephen's Buildings, Parliament Street, Nottingham.

1900. Palmer, Benedict Joseph, Chief Engineer, Civil Service Supply Association, 136 Queen Victoria Street, London, E.C.

1900. Palmer, Henry Boswell, Jun., Driefontein Consolidated Mines, Boksburg, Transvaal, South Africa: (or 13 Chapter Road, Willesden Green, London, N.W.)

1900. Parker, Frederic George William, Locomotive Works, London and South Western Railway, Nine Elms, London, S.W.

1900. Parker, Henry Albert, Messrs. Simpson and Co., 101 Grosvenor Road, Pimlico, London, S.W.; and 15 South Place, Kennington Park, London, S.E.

1896. Parker, John, Messrs. E. Green and Son, 2 Exchange Street, Manchester.

1900. Parkinson, Ernest, Canal Iron Works, Shipley, Yorks. [*Temples, Shipley*. 4080.]

1901. Parsonage, William Rawlett, Municipal Technical School, Suffolk Street, Birmingham.

1898. Parsons, Harry, Silverdale, Church Road, Bexley Heath, S. O., Kent.

1896. Patel, Motibhai Bhikhabhai, Bhadran, near Borsad, India.

1896. Patel, Raojibhai Motibhai, Under Secretary, Public Works Department, Baroda, India.

1893. Paterson, Robert Mair, 18 Wentworth Mansions, Hampstead Heath, London, N.W.

1900. Payne, Henry, University College, Gower Street, London, W.C.

1899. Pearce, Standen Leonard, Corporation Electric Light Station, Dickinson Street, Manchester.

1898. Pedley, Heber Isaac, Messrs. Rudge-Whitworth, Rea Street South, Birmingham.

1901. Peet, William Wentworth, Messrs. E. Brook and Co., Spring Street, Huddersfield.

1896. Pendred, Loughnan St. Lawrence, 33 Norfolk Street, Strand, London, W.C.

1895. Penn, William Cooper, 25 Victoria Street, Westminster, S.W. [*Penniform, London*.]

1901. Perkins, William John, Messrs. Brown and May, Devizes.

1893. Pertwee, Herbert Arthur, Nelson Iron Works, Great Yarmouth.

1894. Peters, Lindsley Byron, Messrs. G. D. Peters and Co., Moorgate Works, Moorfields, London, E.C. [*Peters, London*.]

1900. Petter, Ernest Willoughby, Messrs. James B. Petter and Sons, 73 Queen Victoria Street, London, E.C. [*Escapable, London*. Bank 973.]

1899. Petter, Percival Waddams, Works Manager, Messrs. James B. Petter and Sons, Nautilus Works, Yeovil. [*Petter, Yeovil*.]

1898. Phillipps, John, Cornubia House, Carlton Road, Nottingham.

1897. Phillips, Edwin Grant, care of Philip Jackson, San Agustin 3 dup., Madrid, Spain.

1899. Phillott, George Henry, 13 Promenade, Cheltenham.

1900. Pickering, Frank, Electric Light Department, Cape Government Railways, Cape Town, Cape Colony.

1899. Pigott, Arthur, Babcock and Wilcox Co., 14 Deansgate, Manchester.

1898. Pillatt, Andrew, Queen's Road Works, Nottingham.

1899. Pilling, Frederick Stott, 10 Stoke Terrace, Devonport.

1891. Pirrie, John Barbour, Barn Flax Spinning Mills, Carrickfergus, Co. Antrim, Ireland.

1900. Plant, David Thomas, Works Department, Admiralty, 21 Northumberland Avenue, London, W.C.

1898. Platts, William, Messrs. George Turton, Platts and Co., Savile Street, Sheffield. [*Buffer, Sheffield.*]

1897. Player, Ralph, Messrs. Joseph Wright and Co., Neptune Works, Tipton.

1896. Pollard, Lieutenant Ferdinand Joseph, No. 5 Company, Railway Pioneer Regiment, 22 Atkinson Buildings, Cape Town, Cape Colony.

1897. Porter, Stanley William, 32 Queen Victoria Street, London, E.C.

1900. Pott, George Tom, Engineering Department, Lagos Government, Lagos, West Africa; and 7 Curzon Road, Southport.

1895. Powell, Benjamin Newton, Manager, Lidgerwood Manufacturing Co., Soerabaya, Java: (or care of C. T. Powell, Cherry Street, Birmingham.)

1900. Powell, David Thomas, care of Dr. Alexander B. W. Kennedy, 17 Victoria Street, Westminster, S.W.

1899. Powell, Ernest Brecon, Messrs. Whitehead and Co., Portland Harbour Torpedo Works, Weymouth.

1899. Powrie, William Lyall, Messrs. Furnival and Co., 32 St. Bride Street, London, E.C.

1898. Prance, Cyril Rooke, The Priory, Mansfield Woodhouse, Mansfield.

1897. Price, Charles Graham, Cawdor Villa, Ross, Herefordshire.

1900. Price, Rowland, care of Mrs. Chadwick, 37 Hallam Street, Balsall Heath, Birmingham.

1899. Price, William Frederick, Callender's Cable and Construction Co., Oldham Place, Renshaw Street, Liverpool.

1899. Prockter, Frederick Malcolm, Beaverstown House, Donabate, County Dublin.

1900. Prockter, George Harold, R.N.R., Cunard Steamship Co., Derby Road, Liverpool; and The Grange, Duke Street, Southport.

1899. Pugh, John Vernon, 34 Spon Street, Coventry.

1900. Purves, William Thompson, 47 York Place, Edinburgh. [1259.]

1899. Quilter, Frederic Russell, Palace Chambers, Westminster, S.W.

1899. Radley, Bertram Vernon, East India Railway, Asansol, India.  
 1894. Raleigh, Charles, 58 Chancery Lane, London, W.C.  
 1899. Rapson, Josiah Trevor, Helicoid Locknut Patents Co., Acton Hill Works,  
     Acton, London, W.; and 11 South Road, New Southgate, London, N.  
 1901. Rasey, Alfred Ernest, City and South London Railway Extension,  
     7 Denman Street, London, S.E.  
 1898. Ravenhill, William Arthur, Chief Mechanical Engineer, Royal Gun  
     Carriage Factory, Madras, India.  
 1896. Rayner, Harry Stafford, Sir W. G. Armstrong, Whitworth and Co.,  
     Ashton Road, Openshaw, Manchester.  
 1899. Read, George Henry, National Cash Register Co., 124 Oxford Street,  
     London, W.  
 1899. Redding, Walter, 87 Oak Road, New Wortley, Leeds.  
 1892. Redfern, Charles George, 4 South Street, Finsbury, London, E.C.  
     [*Invention, London. Avenue 691.*]  
 1901. Reynolds, Alfred Milward, Messrs. John Reynolds and Sons, Crown  
     Nail Works, Newtown Row, Birmingham.  
 1899. Richardson, John Robert, Messrs. Robey and Co., Globe Iron Works,  
     Lincoln.  
 1900. Riches, Carlton Tom Hurry, Sir Alexander Rendel and Co., 8 Great  
     George Street, Westminster, S.W.; and 8 Park Grove, Cardiff.  
 1893. Richey, William Frederick Albert, Messrs. Chance Brothers and Co.,  
     Lighthouse Works, near Birmingham.  
 1895. Ridley, Clarence Oliver, Sir W. G. Armstrong, Whitworth and Co.,  
     8 Great George Street, Westminster, S.W.  
 1892. Ridley, James Cartmell, Jun., Swalwell Steel Works, Newcastle-on-Tyne.  
 1896. Rieter, E. Henry, Messrs. Rieter and Koller, Emishofen, near Constance,  
     Switzerland.  
 1901. Riviere, Philip Lyle, Messrs. Kennedy and Jenkin, 17 Victoria Street,  
     Westminster, S.W.  
 1899. Roberts, Basil Owen, care of T. H. Douglas, The Bank, Coldstream.  
 1893. Roberts, Charles Thomas, Salisbury, Rhodesia, South Africa.  
 1899. Roberts, Percy Roper, P.O. Box 31, Salisbury, Rhodesia, South Africa.  
 1901. Robinson, Sydney Greenwood, 25 Hillmarton Road, Camden Road,  
     London, N.  
 1899. Rochat, Henri Louis, 3 and 4 Hare Street, Calcutta, India.  
 1901. Rock, James Parthenay, Messrs. G. J. Worsam and Sons, Wenlock  
     Road, City Road, London, N.  
 1898. Rodda, Joseph Tonkin, Water Works Superintendent, 14 Seaside Road,  
     Eastbourne.  
 1900. Rose, William, 8 Victoria Street, Westminster, S.W.

1897. Rogers, William Ivy, Managing Director, New Merlin Cycle Co., New Summer Street, Birmingham. [*Temptation, Birmingham.* 1817.]

1897. Rolf, George, Messrs. Ernest Scott and Mountain, Close Works, Newcastle-on-Tyne; and 8 Bentinck Crescent, Newcastle-on-Tyne.

1901. Rose, Sydney Durrant, Messrs. Cottrell, Rose and Co., Eddington Iron Works, Hungerford. [*Cottrell, Hungerford.*]

1899. Rosevere, Gerald Rhodes, Britannia Railway Carriage and Wagon Works, Saltley, Birmingham.

1900. Rosevere, Reginald George, Locomotive Department, Midland Railway, Derby.

1895. Ross, Ernest Sydney, Chief Inspector of Machinery, Public Offices, Hobart, Tasmania.

1894. Rossiter, James Thomas, Tynwald, Grove Park Road, Chiswick, London, W.

1884. Roux, Paul Louis, 54 Boulevard du Temple, Paris.

1899. Rowe, John, 1 Dean Villas, Camborne.

1896. Ruffle, Frank Felingham, care of Messrs. Ralli Brothers, Calcutta, India.

1895. Russell, Frederick, Manager, Gas Works, Bexhill-on-Sea.

1899. Russell, Hubert, Engineer, Gas Works, Holmfirth, Huddersfield.

1901. Russell, William Russell, Locomotive Department, Great Western Railway, Mill Bay Station, Plymouth.

1897. Ruthen, Charles Tamlin, Bank Chambers, Heathfield Street, Swansea.

1897. Rycroft, John Edward, Engineering Department, Technical College, Bradford.

1894. Salis, Henry Rodolph de, Ivy Lodge, Iver Heath, near Uxbridge.

1897. Sanders, George, 110 Bankes Road, Small Heath, Birmingham.

1896. Sangster, Charles, Works Manager, Cycle Components Manufacturing Co., Bournbrook, Birmingham.

1896. Scanlan, Horace Edward, Beaconsfield, Longfleet, Poole.

1893. Schloesser, Robert, care of A. Armstrong, 5 Spring Street, Sydney, New South Wales : (or care of Adolf Schloesser, 185 Sutherland Avenue, London, W.)

1900. Schutte, Francis Albert, Semaphore House, Claygate, Esher.

1897. Scott, Herbert Kilburn, Usina Wigg, Miguel Burnier, Minas, Brazil.

1897. Scott, Newton L., Kodak Works, Harrow.

1899. Scott, Robert, Superintendent Engineer, Lace Diamond Mining Co., Kroonstad, Orange River Colony, South Africa.

1901. Scott, Thomas, care of John Roberts, Town Hall, Durban, Natal.

1900. Seabrook, Arthur Hugh, Engineer and Manager, Municipal Electricity Works, Barking.

1899. Seecchi, Leopold, Sir W. G. Armstrong, Whitworth and Co., 8 Great George Street, Westminster, S.W.; and 62 Carminie Road, Balham, London, S.W.

1893. Segundo, Edward Carstensen de, 28 Victoria Street, Westminster, S.W.

1892. Seymour, William Frederick Earl, 176 Barcombe Avenue, Streatham Hill, London, S.W.

1900. Shaw, William Campbell, 55 Bouverie Street, Chester.

1899. Shawcross, George Nuttall, Lancashire and Yorkshire Railway, Horwich, near Bolton.

1899. Sheffield, Frederick Gerard, 68 Sydney Street, South Kensington, London, S.W.

1901. Sheffield, Thomas William, British Thomson-Houston Co., Trevelyan Buildings, Corporation Street, Manchester. [*Helix, Manchester.* 4160.]

1899. Shiba, Chuzaburo, 156 III L. Kant Strasse, Charlottenburg, Berlin.

1897. Shirtliff, Frederick, Messrs. Burn and Co., Howrah, Bengal, India.

1900. Simpson, Donald Grafton, Trafalgar Works, Barbados, West Indies.

1900. Simpson, Lightly Stapleton, Great Eastern Railway, Stratford, London, E.

1898. Simpson, Stephen, Messrs. Willey and Co., James Street Works, Exeter; and Tregear, Exeter.

1899. Sirri, Lieutenant M., Engineering Department, Imperial Naval Arsenal, Constantinople.

1899. Slingsby, Walter, Station Road, Retford.

1899. Smith, Francis Sumner, 13 Elsham Road, Kensington, London, W.

1900. Smith, Frederick Hardecastle, Steam Crane Works, Old Foundry, Rodley, near Leeds.

1899. Smith, Frederick Hugh, Babcock and Wilcox Co., Oriel House, Farringdon Street, London, E.C.

1898. Smith, Herbert William, Works Manager, Messrs. Sydney Smith and Sons, Basford Brass Works, Nottingham; and Gordon Lodge, Easthorpe, Ruddington, Nottingham.

1900. Smith, John Bucknall, Oswaldstre House, 34 Norfolk Street, Strand, London, W.C.; and 90 Wickham Road, St. John's, London, S.E.

1900. Smith, John Smart, Jun., Harbour Engineer's Office, Aberdeen.

1891. Smith, Joseph Philip Grace, Polytechnic School of Engineering, 309 Regent Street, London, W.; and 8 Knatchbull Road, Willesden, London, N.W.

1901. Smith, Lionel Lincoln, Royal Laboratory, Royal Arsenal, Woolwich.

1900. Smith, Montague Howard, Works Manager, Messrs. John Lampitt and Co., Vulcan Foundry, Banbury.

1897. Smith, Sidney, care of Messrs. George Findlay and Co., 21 Adderley Street, Cape Town, Cape Colony.

1898. Smith, Thomas John, Cannon Street, Hanley, Staffordshire.

1894. Smith, William Arthur, Midland Arches, Northampton; and 18 Albion Place, Northampton. [*Machinery, Northampton.*]

1898. Snow, John, Manager, Tasker's Engineering Co., New Station Road, Sheffield. [*Tasker, Sheffield.* 1005.]

1899. Somerville, Frederick Herbert, Messrs. Crompton and Co., Arc Works, Chelmsford.

1899. Speight, James William, Corporation Electricity Works, Blackpool.

1897. Spencer, Henry Wilmot, Messrs. Yates and Thom, Canal Foundry, Blackburn.

1899. Spencer, Perceval, 5 Albert Terrace, Old Trafford, Manchester.

1899. Spiller, Claude, 2 St. Mary's Road, Canonbury, London, N.

1900. Squire, George Frederick, Messrs. Yarrow and Co., Isle of Dogs, Poplar, London, E.

1898. Statham, Frederick Benjamin, 188 Regent Road, Liverpool.

1900. Statham, Harry, 33 Rectory Road, Crumpsall, Manchester.

1900. Steel, Thomas John, Messrs. Fawcett, Preston and Co., 17 York Street, Liverpool.

1899. Steinmetz, Arthur Samler Bernard, Messrs. West and Steinmetz, Commercial Road Foundry, Bedford. [*Castings, Bedford.*]

1899. Stephens, Charles Robert, Manager, Messrs. Stephens and Son, Ashfield, Falmouth. [*Stephens, Falmouth.* 10.]

1900. Stephenson, Alfred, Shipley Fields Mills, Shipley, Yorks.

1899. Stevens, Edwin Charles, Messrs. Archibald Smith and Stevens, Janus Works, Queen's Road, Battersea, London, S.W. [*Hydraulics, London. Battersea* 115.]

1896. Stobart, Henry Gervas, Wolsingham Steel Works, Wolsingham, near Darlington.

1899. Stocks, Harry Benwell, 118 High Road, Willesden Green, London, N.W.

1898. Stockton, Cecil, Messrs. Robert W. Blackwell and Co., Deansgate Arcade, Manchester.

1897. Stockton, Percy Sadler, The Woodlands, Langley Green, near Birmingham.

1901. Strathern, Alexander George, Strathern's Weldless Chains, Gartsherrie, N.B.

1900. Strong, Alfred George, Messrs. H. O. Strong and Co., Norfolk Works, St. Paul's, Bristol. [*Omega, Bristol.* 289.]

1901. Stubbs, Herbert, Manual Instruction Department, Higher Grade School, Wolverhampton.

1898. Suffield, Charles Augustus, Birmingham Corporation Water Works, Elan Valley, Rhayader.

1897. Suffield, Frank Wilson, Glen Lyn, Grove Avenue, Moseley, Birmingham.

1901. Summerfield, Richard Dunning, Messrs. S. Pearson and Son, 10 Victoria Street, Westminster, S.W.

1900. Sutcliffe, Edgar Rouse, General Manager, Messrs. Herbert Alexander and Co., Queen's Engineering Works, Leeds.

1896. Sutherland, James, Manager, Alumina Factory, Larne Harbour, County Antrim, Ireland. [*Aluminium, Larne Harbour.*]

1894. Sutton, Hugh Reginald, Messrs. Mackies, Berks Iron Works, Caversham Road, Reading. [*Mackies, Reading.* 86.]

1901. Swaine, Albert Tom, Messrs. Simpson and Co., 101 Grosvenor Road, Pimlico, London, S.W.

1896. Swallow, John, Messrs. W. Neill and Son, Bold Iron Works, St. Helens Junction, Lancashire. [*Neill, St. Helens.* 20.]

1887. Tabor, Edward Henry, Fennes, Braintree.

1893. Takatsuji, Narazo, Superintending Engineer, Calico Weaving Mill, Osaka, Japan.

1895. Takimura, Takeo, General Manager, Osaka Cotton Mill, Osaka, Japan.

1893. Talbot, Frederick William, Engineer and Manager, Water Works, Frimley Green, Farnborough, Hants.

1897. Talbot, William John, The Perfecta Tube Co., Aston, Birmingham.

1899. Taverner, Herbert Lacy, 12 Mosley Street, Newcastle-on-Tyne. [*Freezing, Newcastle-on-Tyne.*]

1897. Taylor, Arthur Joseph, 6 Apsley Crescent, Manningham, Bradford.

1900. Taylor, Charles Percy, Messrs. Knight, Bevan and Sturge, Northfleet, Kent.

1898. Taylor, Edward, Jun., Messrs. Thomas and Taylor, 80 Lower Hillgate, Stockport.

1901. Taylor, Tom, General Manager, Caledonian Works, Whit Lane, Pendleton, near Manchester; and 9 Pine Street, Pendleton, Manchester.

1899. Tennant, William John, Messrs. Boult, Wade and Kilburn, 111 Hatton Garden, London, E.C.

1893. Tenney, Dennis, Sturton-le-Steeple, Retford.

1899. Tester, William Andrews, Borough Electrical and Tramways Engineer, Corporation Electricity Works, Lancaster.

1898. Thain, William Arthur, University College, Dundee.

1899. Thomas, Hubert Robert, Messrs. Edwin Richards and Sons, Portway Works, Wednesbury.

1900. Thomas, John Frederick Ivor, care of Dr. Alexander B. W. Kennedy, 17 Victoria Street, Westminster, S.W.

1899. Thomas, Owen Powell, Messrs. Whittall and Co., Colombo, Ceylon.

1901. Thomas, Walter Frederick, 110 Inkerman Street, Vauxhall, Birmingham.

1897. Thompson, Herbert, Messrs. Thompson Brothers, 111 Carver Street, Sheffield.

1896. Thompson, Thomas, 10 Maude Villas, Westcombe Hill, Blackheath, London, S.E.

1901. Thomson, David Lockerbie, Nickerie, Dutch Guiana.

1894. Thomson, Henry, Engineer, Cawnpore Woollen Mills, Cawnpore, India.

1901. Thomson, James Cunningham, Messrs. Collins and Co., Tientsin, North China.

1893. Thomson, James Watson, Robert Gordon's College, Aberdeen.

1899. Thornycroft, John Edward, Messrs. John I. Thornycroft and Co., Church Wharf, Chiswick, London, W. [*Thornycroft, London.* 7306.]

1895. Threlfall, George, Messrs. Chance and Hunt, Chemical and Cement Works, Oldbury, Birmingham.

1898. Ticehurst, Hugh Gorham, Thames Ammunition Works, Erith, S.O., Kent; and Telham, Freta Road, Bexleyheath, Kent.

1893. Tomes, William Jameson, District Locomotive Superintendent, East Indian Railway, Jamalpur, Bengal, India: (or care of Joshua Tomes, 5 The Grove, Clacton-on-Sea.)

1900. Tottle, Edward George, Works Manager, Wicks Rotary Type Casting Co., Willesden Junction, London, N.W. [*Enargite, London.* Harlesden 15.]

1900. Townsend, William, Messrs. Joseph Baker and Sons, Willesden Junction, London, N.

1896. Trafford, Alfred, General Electric Co., Peel Works, Salford, Manchester.

1899. Trunchion, William Thomas Fawdon, Messrs. Grafton and Co., Vulcan Works, Bedford.

1900. Turner, Frederick William, Messrs. E. R. and F. Turner, St. Peter's Iron Works, Ipswich. [*Gippswyk, Ipswich.*]

1897. Turner, George Robert, Works Manager, Messrs. Ernest Scott and Mountain, Close Works, Newcastle-on-Tyne.

1893. Turner, Henry Arthur, care of Arthur Koppel, Peninsular House, Monument Street, London, E.C.

1896. Turner, James William, Messrs. George Smith and Co., 13 Commercial Road, Pimlico, London, S.W.

1900. Turner, William, Messrs. Davidson and Co., 115 Hope Street, Glasgow.

1901. Urmston, Peter, Danelova Manufactur, Moscow, Russia.

1898. Urquhart, Ridley James, 57 Barton Arcade, Manchester. [*Kinetic, Manchester.*]

1900. Venning, Albert John, Assistant Engineer R.N., H.M.S. "Hebe," Mediterranean Squadron.

1900. Venning, Thomas Arnold, R.N., H.M.S. "Undaunted," China; and St. Feock, Devonan, Cornwall.

1896. Vernon, William Harry, Messrs. E. Green and Son, Wakefield.

1892. Vezey, Albert Edward, 682 Rotherhithe Street, Rotherhithe, London, S.E.  
1900. Vigers, George Alexander, Palace Chambers, 9 Bridge Street, Westminster, S.W.  
1900. Vines, Charles Granville, Borough Electrical Engineer, Kimberley, South Africa; and Kimberley Club, Kimberley, South Africa.

1893. Walker, Charles Christopher, Nether House, Ranmoor, Sheffield.  
1899. Walker, William Peto, Vacuum Brake Co., 32 Queen Victoria Street, London, E.C.  
1898. Ward, Frederick Arthur, 10 Bellevue Park, Belfast.  
1897. Ward, John Cecil, 52 Queen Victoria Street, London, E.C.  
1900. Ward, Joseph Philip, Public Works Department, Eshewe, Zululand, South Africa.  
1900. Warden-Stevens, Frederic J., 34 Victoria Street, Westminster, S.W.  
1892. Warton, Richard George Frank, care of Transport Department, Bulawayo, Rhodesia, South Africa: (or care of C. H. Gardiner, 24 Grosvenor Terrace, York.)  
1895. Wasdell, Abel, Superintendent, Water Works, Allahabad, India.  
1894. Wasdell, Thomas, 57 City Road, Birmingham.  
1900. Watson, Richard, Charing Cross and Strand Electricity Supply Corporation, 85 Commercial Road, Lambeth, London, S.E.  
1898. Waugh, Hylton Norman Drake, Locomotive Department, London Brighton and South Coast Railway, Brighton.  
1897. Waynfirth, Harry Morton, King's College, Strand, London, W.C.  
1901. Weaver, Henry James, Borough and Waterworks Engineer, Town Hall, King's Lynn.  
1900. Wellington, John Morecraft, 90 Abbeville Road, Clapham, London, S.W.  
1893. Wells, Sidney Herbert, Principal, Battersea Polytechnic Institute, Battersea, London, S.W.  
1899. West, Haarlem Ethneen, Snowshoe Mine, Libby, Montana, United States.  
1899. Weston, George Cambridge, Kensington and Knightsbridge Electric Lighting Co., Albert Vaults, Prince Consort Road, South Kensington, London, S.W.  
1897. Whale, Ralph Abrahams, Hampton Road, Pitsmoor, Sheffield.  
1899. Wheeler, George Uzziah, Messrs. Tangyes, Cornwall Works, Soho, near Birmingham.  
1899. Wheeler, Oswald, 37 Victoria Road, Darlington.  
1900. White, Daniel Hubert, London United Tramways, 88 High Road, Chiswick, London, W.; and 3 Wilton Villas, Chiswick Lane, London, W.

1899. Whitehead, James Peter, Messrs. John M. Sumner and Co., 2 Brazennose Street, Manchester.

1899. Whitehouse, Alfred, Works Manager, New Rapid Cycle Co., Pope Street, Birmingham.

1898. Wigglesworth, Frank, Messrs. Croft and Perkins, Great Northern Works, Bradford.

1895. Wild, Adamson George, care of W. S. Laycock, Victoria Street Works, Sheffield.

1893. Wilkins, George Cornelius, Messrs. Vickers, Sons and Maxim, Naval Construction Works, Barrow-in-Furness.

1900. Williams, Arthur, Apartado 930, Mexico City, Mexico.

1892. Williams, Arthur Edward, Emscote Mills, Warwick.

1900. Williams, Charles Edward, care of the Crown Agents for the Colonies, Downing Street, London, S.W.

1899. Williams, Hal, Messrs. Adams and Williams, 60 Queen Victoria Street, London, E.C. [*Viburnum, London.* Bank 6006.]

1899. Williams, John Ellacott, Metropolitan Electric Supply Co., Acton Lane, Willesden, London, N.W.; and Linacre, 37 Burgoyne Road, Harringay, London, N.

1900. Williams, Walter Doel, Messrs. Barry and Higham, 15 Great George Street, Westminster, S.W.

1899. Williamson, Edward, Messrs. W. Williamson and Co., Milborne Street, Well Street, Hackney, London, N.E. [*Washing Machines, London.*]

1900. Willis, Edward, Willesden District Council, Public Offices, Dyne Road, Kilburn, London, N.W.

1889. Willis, Edward Turnley, Hockley Hall and Whateley Colliery, Tamworth; and Dost Hill, Tamworth.

1898. Wilson, Daniel Ellis, P.O. Box 152, Cairo, Egypt.

1898. Wilson, John Charles, Messrs. Guest and Chimes, Rotherham; and 57 Moorgate, Rotherham.

1900. Winlaw, William Willoughby, Messrs. Vickers, Sons and Maxim, Naval Construction Works, Barrow-in-Furness.

1896. Winston, Harold Holmes, Messrs. Waterlow and Sons, Finsbury, London, E.C.

1896. Wiseman, Alfred, 138 and 140 Conybere Street, Birmingham. [*Verus, Birmingham.* 3784.]

1898. Wolff, Charles Ernest, 96 Midland Road, Bedford.

1900. Wood, Charles, 6 Craven Street, City Road, London, E.C.

1900. Wood, William Howorth, Whitehouse, Vowchurch, Hereford.

1901. Woodger, Peter Bisset, Messrs. Punchard, Lowther and Co., H.M. Dockyard Extension, Hong Kong, China.

1900. Woodhouse, William Bradley, Technical College, Finsbury, London, E.C.

1897. Worsley, Philip John, Jun., Messrs. Nettlefolds, Smethwick, Birmingham.

1895. Wort, Walter Edward, 3 Langham Villas, Langham Road, Teddington, S.O., Middlesex.

1900. Wright, Ernest, The Willows, Harlesden, London, N.W.

1901. Wright, Frank, 19 St. Charles Square, North Kensington, London, W.

1889. Wright, Howard Theophilus, Broad Sanctuary Chambers, Westminster, S.W. [*Heaterite, London.* Westminster 248.]

900. Wright, Isaac Henry, Technical Institute, Keighley; and 15 Gladstone Street, Keighley.

1900. Wright, Richard Oliver, Henley's Telegraph Works, North Woolwich, London, E.

1898. Wrinch, Hugh Edward Hart, Engineer's Office, Chelsea Water Works, Surbiton.

1900. Wyld, William, Patent Shaft and Axletree Co., Wednesbury.

1898. Wyman, Ronald, Messrs. Nettlefolds, Castle Works, Tydu, near Newport, Monmouthshire.

1901. Yardley, William Henry, Messrs. John Dewhurst and Son, Attercliffe Road, Sheffield.

1899. Yeames, James Lamb, 135 Abbey Road, Barrow-in-Furness.

1899. Young, Henry John, Messrs. H. Young and Co., Eccleston Iron Works, Pimlico, London, S.W.

1900. Young, Henry Wilson, 12 Camomile Street, London, E.C.

1899. Young, William, Engineer, London County Asylum, Sutton, Surrey.

## ASSOCIATES.

1900. Allen, Clarence Edgar, 48 Temple Chambers, Embankment, London, E.C.  
1880. Allen, William Edgar, Imperial Steel Works, Tinsley, Sheffield.  
1898. Appleby, Joseph, Managing Director, Messrs. Joseph Appleby, Tower Road, Aston, Birmingham. [*Bushes, Birmingham. 2508.*]

1881. Barcroft, Henry, Bessbrook Spinning Works, County Armagh, Ireland; and The Glen, Newry, Ireland.  
1889. Barr, John, The Glenfield Engineering Works, Kilmarnock.  
1898. Beanland, Fred, Messrs. Beanland, Perkin and Co., Leeds; and Bega, Harrogate.  
1886. Bennison, William Clyburn, Messrs. Samuel Osborn and Co., Clyde Steel and Iron Works, Sheffield; and 12 Mayfield Road, Kersal, Manchester.  
1892. Bowman, Frederic Hungerford, D.Sc., F.R.S.E., Mayfield, Knutsford.  
1898. Brown, Ernest Frederick, Manager, Messrs. William Sugg and Co., Vincent Works, Regency Street, Westminster, S.W. [*Sugg, London. Westminster 169.*]; and John's Avenue, Hendon, London, N.W.  
1888. Brown, Harold, Messrs. Linklater, Hackwood, Addison and Brown, 2 Bond Court, Walbrook, London, E.C.  
  
1889. Castle, Frederick George, East London Technical College, People's Palace, Mile End Road, London, E.  
1889. Chamberlain, John George, Messrs. Joseph Wright and Co., Neptune Forge, Tipton.  
1888. Chrimes, Charles Edward, Messrs. Guest and Chrimes, Brass Works, Rotherham.  
1890. Chubb, Richard, Messrs. Gillison and Chadwick, 10 Tower Buildings, Liverpool.  
1879. Clowes, Edward Arnott, Messrs. William Clowes and Sons, Duke Street, Stamford Street, London, S.E. [*Clowes, London. Hop 558.*]  
1892. Cooper, Thomas Lancelot Reed, Waterloo Chambers, 19 Waterloo Street, Glasgow.  
1892. Cryer, Arthur, 10 Penywain Place, Roath Park, Cardiff.  
  
1899. Dadge, Nelson, Messrs. P. C. Middleton and Co., 10 North St. Andrew Street, Edinburgh.

1893. Darlington, John, Engine, Boiler and Employers' Liability Insurance Co.,  
11 and 12 Albert Buildings, Queen Victoria Street, London, E.C.; and  
65 Haven Lane, Ealing, London, W.

1892. Davis, George Brown, 153A Clapham Road, London, S.W.

1895. Docker, Frank Dudley, Messrs. Docker Brothers, Birmingham Varnish  
Works, Icknield Port Road, Birmingham. [*Japan, Birmingham.*  
3522.]

1899. Douglas, Loudon McQueen, Baltic Wharf Engineering Works, Putney,  
London, S.W. [*Fluoroids, London.*]

1898. Dowlen, Walton Edward, 43 Gloucester Road, Brownswood Park,  
London, N.

1900. Feather, Robert, Craven Bank Chambers, Bradford.

1891. Foster, George, Hecla Foundry Steel Works, Sheffield; and Lyme  
Villa, Rotherham.

1889. Golby, Frederick William, 36 Chancery Lane, London, W.C.

1900. Goodrich, Walter Francis, Messrs. Meldrum Brothers, 66 Victoria Street,  
Westminster, S.W.

1889. Gregory, George Francis, Boarzell, Hawkhurst.

1896. Harvey, Julius, 11 Queen Victoria Street, London, E.C. [*Crosshead,  
London.*]

1887. Hind, Enoch, Edgar Rise, Nottingham.

1898. Howard, Charles, British Non-Flammable Wood Co., Town Mead Road,  
Fulham, London, S.W.

1896. Hutton, William, P.O. Box 2399, Johannesburg, Transvaal, South Africa.

1891. Jackman, Joseph, Persberg Steel Works, Pothouse Road, Attercliffe,  
Sheffield. [*Persberg, Sheffield.* 94.]

1884. Jackson, Edward, Midland Railway-Carriage and Wagon Works,  
Birmingham. [*Wagon, Birmingham.*]

1897. James, Albert Alfred, St. George's Works, Paradise Street, West  
Bromwich. [*James, Wireworks, West Bromwich.* 5014.]

1896. Kennan, Williams Thomas, Messrs. Kennan and Sons, Fishamble Street,  
Dublin. [*Kennans, Dublin.*]

1897. Kenway, William Edward, Messrs. A. B. Bowden and Co., 17 Burlington  
Chambers, New Street, Birmingham.

1896. King, Benjamin Thomas, 165 Queen Victoria Street, London, E.C. [*Apis,  
London.* Bank 682.]

1898. Leechman, George Douglas, 18 Hertford Street, Coventry.

1896. Lemkes, Carl Rudolf Lewin, Messrs. Schäffer and Budenberg, 5 Wellington Street, Glasgow. [*Injector, Glasgow.* Royal 3119.]

1900. Leonard, Robert Maynard, 19 Ludgate Hill, London, E.C.

1898. Light, George Miller, 32 Victoria Street, Westminster, S.W. [*Hurrah, London.* Westminster 502.]

1895. MacBrayne, Laurence, 119 Hope Street, Glasgow.

1886. Mackenzie, Keith Ronald, Gillotts, Henley-on-Thames.

1898. Marshall, Percival, Temple House, Temple Avenue, London, E.C.

1868. Matthews, Thomas Bright, Messrs. Turton Brothers and Matthews, Phoenix Steel Works, Sheffield. [*Matthews, Sheffield.*]

1901. Mayhew, Mark James, 112 Church Road, Battersea, London, S.W.

1889. McKinnel, William, 234a Nithsdale Road, Pollokshields, Glasgow.

1890. Meggitt, Samuel Newton, Messrs. Ibbotson Brothers and Co., Globe Steel Works, Sheffield.

1898. Meintjes, Laurens Schmitz, P.O. Box 148, Cape Town, Cape Colony.

1898. Murray-Morgan, Everard Home, 8 Merridale Lane, Wolverhampton.

1887. Neville, Edward Hermann, 35 Calle de Alcala, Madrid, Spain.

1900. Page, Davidge, 33 Bedford Street, Strand, London, W.C.; and Hotel Russell, Russell Square, London, W.C.

1874. Paget, Berkeley, Low Moor Iron Office, 2 Laurence Pountney Hill, Cannon Street, London, E.C. [*Gryphon, London.*]

1886. Peacock, William J. P., Wells Street, Oxford Street, London, W.; and 41 St. James' Street, London, S.W.

1888. Peake, Robert Cecil, Cumberland House, Redbourn, near St. Albans.

1887. Peech, Henry, Phoenix Bessemer Steel Works, near Sheffield; and 49 Victoria Street, Westminster, S.W.

1887. Peech, William Henry, Phoenix Bessemer Steel Works, near Sheffield; and Fernbank, Roehampton Park, London, S.W.

1884. Phillips, Richard Morgan (*Life Associate*), care of J. Griffin, 6 Algiers Road, Ladywell, London, S.E.

1891. Plant, George, Moseley Road School, Birmingham.

1897. Prior, James D., Eagle Range and Foundry Co., Catherine Street, Aston, Birmingham. [*Ranges, Birmingham.* 2558.]

1892. Reed, Ernest Charles, Raamsdonk, Holland.

1891. Rowcliffe, William Charles, 1 Bedford Row, London, W.C.

1899. Sachs, Edwin Otho, 3 Waterloo Place, Pall Mall, London, S.W.

1900. Salomons, Sir David Lionel Goldsmid-Stern, Bart., Broomhill, Tunbridge Wells; and 49 Grosvenor Street, London, W.

1896. Sangster, William Skene, Superintendent, Lima Water Works, Lima, Peru.

1887. Scott, Walter, Victoria Chambers, Grainger Street West, Newcastle-on-Tyne. [*Contractor, Newcastle-on-Tyne.*]

1893. Simpson, Edward Percy, Messrs. Simpson and Co., 101 Grosvenor Road, Pimlico, London, S.W.

1899. Smith, George Robert, Ossett, near Leeds.

1897. Smith, William Henry, Manager, Platinotype Engineering Co., Platinotype Works, Penge, London, S.E.

1891. Spencer, Francis Henry, care of Bonanza Co., Cape Town, Cape Colony.

1897. Starley, William, Queen Victoria Road, Coventry. [*Salvo, Coventry.* 72.]

1892. Stead, John Edward, 11 Queen's Terrace, Middlesbrough. [*Stead, Middlesbrough.*]

1890. Taylor, John, 99 and 101 Fonthill Road, Finsbury Park, London, N.; and Stockport.

1896. Taylor, Joseph Henry, 9 and 11 Fenchurch Avenue, London, E.C. [*Tyne, London. Avenue 4108.*]

1887. Tozer, Edward Sanderson, Phoenix Bessemer Steel Works, near Sheffield.

1893. Wadham, Arthur, Wardrobe Chambers, 146A Queen Victoria Street, London, E.C. [*Wadham, London.*]

1897. Wallach, Lewis Charles, 57 Gracechurch Street, London, E.C. [*Hammerman, London.*]

1898. Warner, Ashby William, Norton, Stockton-on-Tees.

1899. Waterlow, David Sydney, The Thorns, Northwood, near Rickmansworth, Herts.

1892. Whitehead, Richard David, Municipal Technical College, Green Hill, Derby.

1883. Williamson, Robert S., Cannock and Rugeley Collieries, Hednesford, near Stafford.

1899. Wilson, James Michael Graham, Messrs. R. Wilson, Son and Co., St. George's Street, Cape Town, Cape Colony.

1898. Wimpenny, Abel Buckley, Oak Villa, Hayfield, Stockport.

1891. Wiseman, Edmund, Cheapside and John Street, Luton. [*Wiseman, Luton.*]

1897. Wood, William Alfred, Messrs. Wood and Newland, 42 Spring Gardens, Manchester. [*Certificate, Manchester.*]

1899. Young, John Drummond, Managing Director, Scottish Boiler Insurance Co., 111 Union Street, Glasgow. [*Inspector, Glasgow. 1271.*]

## GRADUATES.

1885. Addis, Frederick Henry, Mhow, Central India: (or care of Messrs. Grindlay and Co., 55 Parliament Street, London, S.W.)

1897. Allan, Frederick William, Glenalmond, Gillsland Road, Edinburgh.

1897. Allan, George, Jun., Courtlands, Gordon Road, Ealing, London, W.

1900. Appleby, Thomas Darby Haslam, Locomotive Department, Midland Railway, Kentish Town, London, N.W.

1897. Atherton, Percy William, King's College, Strand, London, W.C.

1890. Aubin, Percy Adrian, 29 St. James' Street, St. Helier's, Jersey.

1900. Bagg, Henry Arthur, Sturtevant Engineering Co., 147 Queen Victoria Street, London, E.C.

1898. Balch, Bertram Duthoit, 28 Dixon Road, New Cross, London, S.E.

1896. Barbosa, Agenor, Juiz de Fora, Minas Geraes, Brazil.

1889. Barrow, Arthur Robert Maclean, P. O. Box 39, Nelson, British Columbia: (or care of Mrs. Barrow, Holly Grove, Fittleworth, Pulborough.)

1897. Bartley, Bryan Cole, care of George C. T. Bartley, M.P., 57 Victoria Street, Westminster, S.W.

1897. Baxandall, Richard Fitzgerald, Cregneish, Ben Rhydding, Yorkshire.

1900. Bazin, John Ralph, Great Northern Railway Works, Doncaster.

1898. Bell, Frank, Signal Works, Engineer's Department, Midland Railway, Derby.

1884. Bell, Robert Arthur, Clevedon, Prestwich Park, Manchester.

1900. Bennett, Henry Arthur Dillon, Laurel Bank, Bromley Common, Bromley, Kent.

1899. Blyth, Ernest Blackstone, Owen Stone Co., Bathgate, near Edinburgh.

1900. Boreham, George Henry, Messrs. Allen Ransome and Co., Stanley Works, Newark.

1900. Bott, Walter Stanley, Messrs. Allen Ransome and Co., Stanley Works, Newark.

1900. Boulton, Charles Valentine, 17 Wandsworth Road, Upper Tooting, London, S.W.

1897. Bowden, John Horace, 17 Kempford Gardens, Earl's Court, London, S.W.

1899. Bower, Henry Allan Richard, Globe and Phoenix Mines, Rhodesia, South Africa.

1900. Box, Wilfrid Leonard, Messrs. Dick, Kerr and Co., 110 Cannon Street, London, E.C.

1888. Bradley, Arthur Ashworth, West Bank, Port Alfred, Cape Colony: (or care of Rev. Gilbert Bradley, St. Edmund's Vicarage, Dudley, Worcestershire.)

1899. Bradley, Cecil Gustav, Borough Engineer's Office, Town Hall, Barrow-in-Furness.

1887. Bremner, Bruce Laing, Assistant Locomotive Superintendent, Uganda Railway, Mombasa: (or care of Mrs. Bremner, Streatham, Canaan Lane, Edinburgh.)

1898. Bressey, Cyril Edward, Locomotive Department, Great Central Railway, Gorton, Manchester.

1900. Broughton, Harold, Technical College, Huddersfield.

1890. Brousson, Robert Percy, Electric Traction Co., 16 Great George Street, Westminster, S.W.

1898. Bruce, John George, Messrs. Clarke, Chapman and Co., Gateshead; and 5 Ashbrooke Terrace, Sunderland.

1899. Butters, Howard, Parkfield, Malvern.

1900. Calvi, Alberto Ulisse, Cairo, Egypt.

1890. Carthew-Wright, William, Dulce Domum, School Street, Charters Towers, Queensland.

1891. Caswell, Charles Henry, 75 Mount Pleasant, Barrow-in-Furness.

1900. Chubb, Harry Emory, Messrs. Greenwood and Batley, Albion Works, Leeds.

1900. Clapham, Thomas Alborn, Messrs. Clapham Brothers, Wellington Foundry, Keighley.

1892. Cleverly, William Bartholomew, Stourbridge Water Works, Coalbourne Brook, Stourbridge.

1898. Close, Henry Alwyn, 9 Burton Street, Wakefield.

1892. Collingridge, Harvey, Messrs. S. Pearson and Son, Blackwall Tunnel Works, East Greenwich, London, S.E.; and Ingleborough, The Ridgway, Enfield.

1889. Cook, George Norcliffe, Messrs. Thomas Firth and Sons, Norfolk Works, Sheffield.

1899. Cooke, Rupert Thomas, Jun., Messrs. Francis Morton and Co., Garston, near Liverpool.

1900. Cooke, Stanley Walter, Thames Iron Shipbuilding and Engineering Works, Greenwich, London, S.E.

1899. Cotton, George Burchell, Town Hall Chambers, Torquay.

1900. Cowcher, George, 106 Highbury Road, Bulwell, Nottingham.

1900. Creswell, Francis Samuel, Sir William Arrol and Co., 32 Victoria Street, Westminster, S.W.

1901. Davidson, James Samuel, Works Manager, Sirocco Engineering Works, Bridge End, Belfast.

1898. Davidson, John, Messrs. Browett, Lindley and Co., Patricroft, near Manchester; and 8 Trafford Road, Eccles.

1900. Davies, Edward Ayerst, 34 Selby Road, Anerley, London, S.E.

1896. Dawe, John Nanscawen, Contractor's Office, Truro and Newquay Railway, Perranporth, R.S.O., Cornwall.

1899. Dawson, John Edward, Corporation Electricity Works, Burn Road, West Hartlepool.

1900. Deacon, Robert Dugald, Leopoldina Railway, Rio de Janeiro, Brazil.

1901. Dennis, George Stanley, 26 Newton Road, Bayswater, London, W.

1898. Dickinson, John Gilbert, 69 Rice Lane, Egremont, Cheshire.

1899. Dimes, Charles William, Electric Resistance and Heating Co., 82 Victoria Street, Westminster, S.W.

1884. Dixon, John, 117 Warton Street, Lytham.

1899. Dodge, Samuel Brickhill, Town Hall, Hove, Sussex.

1900. Down, Percy, Great Eastern Railway, Stratford Works, London, E.

1899. Drayton, Theophilus James Bradley, Smithfield Markets Electric Supply Co., 53 Charterhouse Street, London, E.C.

1901. Drown, Alfred Ernest, care of Percy Griffith, 54 Parliament Street, Westminster, S.W.

1896. Dryden, William, Jun., Grimshaw Street Foundry, Preston.

1891. Duncan, Martin Gordon, Lexden, 63 Elmfield Road, Upper Tooting, London, S.W.

1900. Dyson, John Daniel, Messrs. Rosling and Appleby, Trafalgar Works, Bradford.

1900. Edwards, John, Messrs. E. Merten and Co., 44 Oranienburger Strasse, Berlin, N. 24, Germany.

1899. Edwards, William Bernard, 65 St. Peter Street, Derby.

1901. Elliott, Alexander Gray, 2 Clarinda, Cave Hill Road, Belfast.

1901. Ellis, Rhodes Herbert, 349 Leeds Road, Bradford.

1899. Embleton, Charles Arnold, care of George Cawley, 29 Great George Street, Westminster, S.W.

1897. Emery, James Inman, Messrs. P. Orr and Sons, Mount Road, Madras, India.

1897. Engelbach, Charles Richard Fox, Sir W. G. Armstrong, Whitworth and Co., Elswick Works, Newcastle-on-Tyne.

1900. Enock, John Kemp, Messrs. Biggs and Shenton, 21 Great College Street, Westminster, S.W.

1900. Epps, Laurence George John, 95 Upper Tulse Hill, London, S.W.

1897. Etlinger, George Ernest, Queen Anne's Mansions, St. James's Park, Westminster, S.W.

1900. Eugster, Oscar, 79 Mount View Road, Stroud Green, London, N.

1900. Eyers, Cyril, 2 Aubrey Road, Campden Hill Square, London, W.

1900. Falconer, Edward Alaric, Messrs. George Wailes and Co., 258 Euston Road, London, N.W.

1900. Faulkner, Vivian, Messrs. L. Faulkner and Sons, Hersham, Walton-on-Thames.

1901. Forster, Richard, Thorncliffe Villa, Chapeltown, near Sheffield.

1900. Forward, Ernest Alfred, Inglecroft, Carshalton Grove, Sutton, Surrey.

1897. Foster, Sydney, Engineer's Office, Lancashire and Yorkshire Railway, Fleetwood, R.S.O., Lancashire.

1898. Fraser, William Stuart, 18 Queen's Square, Blackpool.

1895. Fryer, Tom Jefferson, Brookdean, Hope, Sheffield.

1899. Gandon, Philip George, Egyptian Salt and Soda Co., Bulac, Cairo, Egypt.

1898. Gibb, Maurice Sylvester, 5 Holbeck Hill, Scarborough.

1895. Gill, Charles Edgar, 9 Balmoral Place, Halifax.

1899. Good, Basil Price, 19 Luxemburg Gardens, Brook Green, Hammersmith, London, W.

1899. Goodall, Francis Harrison, Lucknow Avenue, Nottingham.

1898. Goodbehere, Alwyn, Messrs. Brooks and Doxey, Union Iron Works, West Gorton, Manchester.

1898. Goodbehere, Eric, Messrs. Brooks and Doxey, Union Iron Works, West Gorton, Manchester.

1899. Goodman, Frank Adolphus, Town Hall Chambers, Torquay.

1896. Gordon, Leslie, Bentley Priory, Stanmore.

1897. Goulding, Benjamin Joseph John, The Machinery Trust, 189 Fleet Street, London, E.C.

1898. Green, Harry Hewlett Richard, 46 Underhill Road, Lordship Lane, London, S.E.

1899. Griffiths, Harold, Messrs. Parker, Wolverhampton; and Thornbury, Woodbourne Road, Edgbaston, Birmingham.

1900. Gulliver, Gilbert Henry, Central Technical College, Exhibition Road, London, S.W.

1897. Guthrie, William James, Templehill, Troon.

1899. Hale, Harold, Durngate House, Winchester.

1898. Hamilton, Harold, Messrs. Thomas Hamilton and Co., 90 Cannon Street, London, E.C.

1901. Hamilton, John, R.N., Royal Naval College, Greenwich, London, S.E.

1898. Hammond, Robert Whitehead, 64 Victoria Street, Westminster, S.W.

1899. Harris, Francis Graham Reynolds, Messrs. Bramwell and Harris, 5 Great George Street, Westminster, S.W.

1898. Haslam, Alfred Victor, Union Foundry, Derby.

1899. Hawkins, Elyot Sydney, Locomotive Department, Cambrian Railways, Oswestry.

1889. Hayward, Robert Francis, Union Light and Power Co., Salt Lake City, Utah, United States.

1901. Head, Walter George, Messrs. Simpson and Co., 101 Grosvenor Road, Pimlico, London, S.W.

1900. Headley, St. John Barrow, Kingston Electric Central Station, Kingston-on-Thames.

1877. Heaton, Arthur, Messrs. Heaton and Dugard, Metal and Wire Works, Shadwell Street, Birmingham. [*Heagard, Birmingham.*]

1900. Hedley, William Scott, The Poplars, Spennymoor.

1899. Hemingway, Leigh, Great Western Railway, Stafford Road, Wolverhampton.

1901. Herbert, Walter, 24 Upper King Street, Leicester.

1900. Heydemann, Harry George Julius, P.O. Box 241, Maritzburg, Natal.

1900. Higgs, Arthur Franklin, Clarence House, Gloucester.

1900. Hill, Walter Hereward, Fairmount, Herne Hill, London, S.E.

1891. Hodgson, William James, Messrs. Hodgson and Hodgson, Central Chemical Works, Nottingham.

1887. Hogg, William, Messrs. Gates and Thomas, Warrington.

1898. Homan, Brees van, Messrs. Homan and Rodgers, 17 Gracechurch Street, London, E.C.

1900. Hopkinson, Allen Haigh, Messrs. J. Hopkinson and Co., Britannia Works, Huddersfield.

1900. Horsfield, Percy Firth, Messrs. J. and J. Horsfield, Vulcan Iron Works, Dewsbury.

1889. Hosgood, Thomas Watkin, Eaton Grove, Swansea.

1889. Howard, Geoffrey, Britannia Iron Works, Bedford.

1883. Howard, Harry James, Messrs. Colman's Mustard Mills, Carrow Works, Norwich.

1900. Hughes, Edmund Selby, Providence Wharf, East Greenwich, London, S.E.

1891. Hughes, Edward Sinclair Bremner, 1 The Terrace, Thurlow Park Road, West Norwood, London, S.E.

1896. Humphrey, Frederick George, 166 High Street, Sevenoaks.

1900. Hunton, William, St. Cuthberts, Bath.

1901. Hurst, Joseph Henry, Messrs. Wootton Brothers, Coalville, near Leicester.

1899. Hutchison, Percy, The Oaks, Southchurch Road, Southend-on-Sea.

1900. Ingate, George James Arthur, University College of South Wales and Monmouthshire, Cardiff.

1901. Jenkins, Edgar Jackson, Messrs. R. Jenkins and Co., Masboro Boiler Works, Rotherham.

1896. Johnson, Henry Howard, Woodville, Rondebosch, Cape Town, Cape Colony.

1891. Jordan, Frederic William, Messrs. W. Jordan and Sons, 349 Euston Road London, N.W.

1900. Josselyn, Edward, Messrs. A. Ransome and Co., Stanley Works, Newark.

1895. Keen, Harry A., Patent Nut and Bolt Co., London Works, near Birmingham.

1898. Kenrick, Archibald, Jun., Messrs. Joshua Buckton and Co., Well House Foundry, Meadow Road, Leeds.

1899. Kimber, Harry Watkins, Llanwarne, Kingston Crescent, Portsmouth.

1896. Kitsell, Archibald Edward, 18 Stebbing Street, Latimer Road, London, W.

1900. Lakin-Smith, Clifford, Winchester Electric Light Co., 23 St. Peter Street, Winchester.

1883. Lander, Philip Vincent, Lyndhurst, Hampton Wick: (or care of W. W. Lander, Imperial Ottoman Bank, 26 Throgmorton Street, London, E.C.)

1898. Langdon, Harold Arthur William, Locomotive Department, Midland Railway, Kentish Town, London, N.W.

1900. Lee, Walter, 38 Worple Road, Wimbledon.

1900. Lenox, George Duncan, Messrs. Andrew Barclay, Sons and Co., Caledonia Works, Kilmarnock.

1886. Lewis, William Thomas, Jun., Engineer's Office, Bute Docks, Cardiff; and Maplewood, Llandaff, Cardiff.

1899. Lowsley, Sydney Evan, Borough Engineer's Office, Town Hall, Wolverhampton.

1900. Lupton, Norman Darnton, Messrs. Joshua Buckton and Co., Well House Foundry, Meadow Road, Leeds.

1883. Mackenzie, Thomas Brown, Messrs. David Colville and Sons, Dalzell. Steel and Iron Works, Motherwell; and 342 Duke Street, Glasgow.

1900. Mackessack, Harry, 8 West Parade, Newcastle-on-Tyne.

1893. Mackesy, Walter, 54 Reservoir Road, Birmingham.

1897. Mansfield, Frank, Messrs. Mansfield and Sons, 9 Second Line Beach,  
Madras, India. [*Gaslight, Madras.*]

1899. Mansfield, Oliver, Messrs. Edwin Mansfield and Sons, 9 Second Line Beach,  
Madras, India. [*Gaslight, Madras.*]

1868. Mappin, Frank, Messrs. Thomas Turton and Sons, Sheaf Works, Sheffield.

1898. Maria, Horacio Santa, Administracion del Gas, Rosario de Santa Fé,  
Argentine Republic: (or care of Messrs. Hugo Brown and Co.,  
13 Castle Street, Liverpool.)

1892. Marks, Alfred Pally, 55 Gillott Road, Birmingham.

1895. Marriner, John, Park View, Crooms Hill, Greenwich, London, S.E.

1899. Marsden, Alfred, 27 Camera Square, Beaufort Street, Chelsea, London, S.W.

1900. Marshall, Alfred Turner, The Elms, Wigston Magna, Leicester.

1889. Marshall, Frank Theodore, Messrs. R. and W. Hawthorn Leslie and Co.,  
St. Peter's Works, Newcastle-on-Tyne.

1888. Marten, Hubert Bindon, Contractor's Office, Breydon Viaduct, Great  
Yarmouth; and Pedmore, Stourbridge.

1886. Mattos, Alvaro Gomes de, 98 Rua da Sande, Rio de Janeiro, Brazil: (or  
care of Messrs. Fry Miers and Co., Suffolk House, 5 Laurence Pountney  
Hill, London, E.C.)

1898. Mayes, Howard, Kelvedon, Westwood Park, Southampton.

1901. Mayo, Charles Robert, Folkedene, Grove Park, Lee, London, S.E.

1899. Mayo, William Henry, Coventry Cycle and Motor Co., Church Street,  
Malvern.

1900. McDermott, Hugh, 3 Thurleigh Road, Wandsworth Common, London, S.W.

1901. McDonald, William, English Electric Manufacturing Co., West Strand  
Road, Preston, Lancashire.

1900. Michell, William Henry, R.N., Royal Naval College, Greenwich, London,  
S.E.

1900. Miller, William Thomas Ward, 30 Beech Hill Road, Sheffield.

1891. Mills, Matthew William, Moss Foundry, Heywood, near Manchester.

1900. Minors, Ernest, Town Hall, Wolverhampton.

1891. Mogg, Henry Hodges, Newbridge Hill, near Bath.

1897. Montgomery, Charles Hubert, Locomotive Department, Lancashire and  
Yorkshire Railway, Bolton.

1900. Moraes, James Affleck, Surveyor's Office, Sandgate, Kent.

1900. Morgan, David James, 2 Crescent Place, The Hoe, Plymouth.

1897. Muggeridge, Harold Chisman, Engineering Workshops, South Indian  
Railway, Trichinopoly, India.

1900. Murdoch, Alexander Gemmell, Messrs. T. and J. Hosking, Dockhead  
Iron Works, Bermondsey, London, S.E.

1892. Murray, David James, 101 Forth Street, Pollokshields, Glasgow.

1901. Newman, Kenneth Charles Horton, Cliftonville Villa, Newbury Road, Wantage.  
1900. Newton, George Henry, Messrs. Rosling and Appleby, Trafalgar Works, Bradford.  
1897. Nixon, Charles Basil, Walton Firs, Shrewsbury Road North, Birkenhead.  
1899. Nutter, Harold Norman, Messrs. Aykroyd and Sons, Oakwood Dye Works, Bradford.  
  
1899. O'Brien, Henry Eoghan, Lancashire and Yorkshire Railway, Horwich, near Bolton.  
1883. O'Connor, John Frederick, Messrs. O'Connor and Rutherford, 31 and 33 Broadway, New York, United States.  
1883. Osborn, William Fawcett, Messrs. Samuel Osborn and Co., Clyde Steel and Iron Works, Sheffield.  
  
1899. Parker, Frederick Thomas, St. John del Rey Mines, Morro Velho, Minas Geraes, Brazil.  
1900. Parlby, Valentine, Messrs. John I. Thornycroft and Co., Church Wharf, Chiswick, London, W.  
1899. Pashby, Arthur Harold, Cauldwell, Claremont Road, St. Margaret's-on-Thames.  
1898. Payne, Frank Gervas, Stettin Lodge, St. Faith's Road, West Norwood, London, S.E.  
1899. Pearson, Charles Dearne, 19 Court Ucha, Port Talbot.  
1901. Penn, Reginald William, Brush Electrical Engineering Co., 49 Queen Victoria Street, London, E.C.  
1899. Peregrine, William Henry, Manchester Road, Bury, Lancashire.  
1900. Perry, Edgar William Frank, 1 and 2 Palace Chambers, 9 Bridge Street, Westminster, S.W.  
1890. Philipson, John, Messrs. Atkinson and Philipson, 27 Pilgrim Street, Newcastle-on-Tyne. [*Carriage, Newcastle-on-Tyne.* 1641.]  
1884. Philipson, William, Messrs. Atkinson and Philipson, 27 Pilgrim Street, Newcastle-on-Tyne. [*Carriage, Newcastle-on-Tyne.* 1641.]  
1898. Phillips, Walter Patrick Frear, Norwich Electric Tramways, St. Stephen's Chambers, Norwich.  
1899. Philpot, Harold Percy, Messrs. Yarrow and Co., Isle of Dogs, Poplar, London, E.  
1900. Plaister, William Edward, Pembury House, Tottenham, London, N.  
1900. Plante, Stanley Gedge, 25 Roman Road, Colchester.  
1899. Pointon, John Edward, Messrs. Lewis and Pointon's Panification, Wellington, Shropshire.  
1890. Powell, Frederick, York House, Malvern Link, Malvern.  
1892. Power, Arthur Cyril, 17 Fordwych Road, Brondesbury, London, N.W.

1898. Preen, Arthur Harvey, 62A Radford Road, Leamington.  
1899. Pritchard, Roger Cromwell, 55 Highbury New Park, London, N.  
1899. Prosser, Robert Walter Ostell, Blaydon Iron Works, Blaydon-on-Tyne.  
1897. Pullar, Frederick Pattison, Messrs. Robert Pullar and Sons, Keirfield, Bridge of Allan, N.B.

1897. Rainforth, William Frederick, Messrs. Clayton and Shuttleworth, 111/2 Löwengasse 34, Vienna, Austria.  
1892. Ransom, Herbert Byrom, Messrs. Manlove Alliott and Co., 57 Gracechurch Street, London, E.C.  
1901. Reeves, Charles Ingham, Central Technical College, Exhibition Road, South Kensington, London, S.W.  
1898. Rennie, John Assheton, Messrs. G. Rennie and Co., Thames Street, Greenwich, London, S.E.  
1901. Reside, Andrew, care of James Reside, Brighouse.  
1884. Reynolds, Thomas Blair, 28 Victoria Street, Westminster, S.W.  
1900. Richards, James Garfield, Locomotive Works, London and South Western Railway, Nine Elms, London, S.W.  
1898. Roberts, Frederick Edward Laing, Tydebrook Vicarage, Wadhurst, Sussex.  
1899. Roberts, Robert Coryton, 7 Mount Preston, Leeds.  
1900. Robertson, Walter Henry Antonio, care of Thomas Barraclough, 20 Bucklersbury, London, E.C.  
1897. Robinson, Herbert, 88 Redesdale Street, Chelsea, London, S.W.  
1897. Rootham, Howard Melville, 12 Well Walk, Hampstead, London, N.W.  
1896. Rothschild, Lester Vivian, 80 Lancaster Gate, London, W.  
1888. Rümmele, Alfredo, 17 Via Principe Umberto, Milan, Italy.

1899. Sanderson, Herbert William, University College, Nottingham; and Bath Vale, Mansfield.  
1890. Saxelby, Herbert Raffaelle, care of C. Aris, 19 Binden Road, Ravenscourt Park, London, W.  
1892. Scarfe, George Norman, care of George Scarfe, Gawler Place, Adelaide, South Australia.  
1899. Schontheil, Theodore, Messrs. Robert W. Blackwell and Co., 7 St. Mary Street, Cardiff.  
1881. Scott, Ernest, Messrs. Ernest Scott and Mountain, Close Works, Newcastle-on-Tyne. [*Eesco, Newcastle-on-Tyne. 1259.*]  
1898. Sharp, William, 19 Hampden Street, Horton Lane, Bradford.  
1901. Sharpley, Reginald, Engineer's Office, Great Northern Railway, King's Cross, London, N.

1892. Shepherd, James Horace, Great Western Railway, Swindon; and 11 Gloucester Street, Swindon.

1898. Smith, George Alfred, Ash Lodge, Watford.

1898. Smith, Ralph Vernon, Messrs. Sydney Smith and Sons, Basford Brass Works, Nottingham.

1899. Smith, Raymond Berkeley, Ashanti Goldfields Corporation, Obuassi, Prahsu, West Africa.

1901. Smith, Reginald Redhead, Simms Manufacturing Co., 55A Southwark Park Road, Bermondsey, London, S.E.

1900. Smith, Walter Tom, 9 Victoria Street, Westminster, S.W.

1900. Smyth, Robert Henry, Glenmore, Coolaney, Co. Sligo, Ireland.

1900. Soyres, Bernard de, 4 Leicester Place, Clifton, Bristol.

1901. Spencer, Arthur John, Machinery Division, Victoria and Albert Museum, South Kensington, London, S.W.

1899. Stevens, Percy Herbert, Messrs. Archibald Smith and Stevens, Janus Works, Queen's Road, Battersea, London, S.W.

1899. Stewart, Charles, Great Northern Railway Works, Doncaster.

1892. Stokes, Frank Torrens, East Rand Proprietary Mines, P.O. Box 295, Cape Town, Cape Colony.

1900. Stonebridge, Arthur Watson, 63 Earlham Road, Norwich.

1899. Stow, George, Southdown Road, Shoreham, Sussex.

1900. Taite, Geoffrey Charles, Trinity College, Cambridge.

1885. Tangye, John Henry, Messrs. Tangyes, Cornwall Works, Soho, near Birmingham.

1898. Tarver, Herbert Henry, Messrs. Walker, Sons and Co., Colombo Iron Works, Colombo, Ceylon.

1899. Taylor, Frank Coston, Lancashire and Yorkshire Railway, Horwich, near Bolton.

1901. Taylor, George Stevenson, Royal College of Science, South Kensington, London, S.W.

1884. Taylor, Maurice, 50 Rue Rochechouart, Paris.

1901. Thompson, Edgar Wakelin, Manager, Boyd's Ice Factory, Kalikat Street, Bombay, India.

1900. Thompson, Edward Horace, 183 Camberwell Grove, London, S.E.

1899. Thomson, Alfred Morris, Lilybank Engine and Boiler Works, Dundee.

1894. Thorpe, Wilfred Bertram, 20 Larkhall Rise, Clapham, London, S.W.

1895. Titren, Gerald Ernest de Keyser, Natal Government Railway Works, Durban, Natal.

1899. Trafford, Joseph Peter, Gravelly Hill, near Birmingham.

1899. Tregoning, Wynn Harold, Messrs. Bramwell and Harris, 5 Great George Street, Westminster, S.W.

1898. Turner, Vincent, City Water Engineer's Office, Town Hall, Wakefield.

1898. Vaughan, John Crake, Messrs. Crompton and Co., 50 Wellington Street, Glasgow.

1900. Viney, Horace, Messrs. Frederick Bird and Co., 11 Great Castle Street, Regent Street, London, W.

1888. Waddington, Samuel Sugden, 35 King William Street, London Bridge, London, E.C.

1897. Wade, Francis Richard, 57 Strathblaine Road, St. John's Hill, London, S.W.

1900. Wadham, Robert, Messrs. Calvert and Co., Gothenburg, Sweden.

1896. Walker, Charles Bell, Messrs. Veritys, Plume Works, Aston, Birmingham.

1898. Walker, Robert Hugh, Messrs. T. Middleton and Co., Loman Street, Southwark, London, S.E.

1900. Walton, Denys, 2A Blomfield Gardens, Shepherd's Bush, London, W.

1898. Wans, Oswald, Messrs. Bryan Donkin and Clench, 55 Southwark Park Road, Bermondsey, London, S.E.; and Easdale, Westcombe Park Road, Blackheath, London, S.E.

1898. Wardle, Frank Harold, 10 Forest Road East, Nottingham.

1888. Waring, Henry, Engineer, Dublin Laundry Co., Milltown, near Dublin.

1901. Warner, Harold Melford, 44 Highbury Park, London, N.

1900. Warner, James Sutherland, care of Alexander Pope, Devereux Court, Temple, London, E.C.

1899. Warren, Robert Augustus, Locomotive Department, Lancashire and Yorkshire Railway, Normanton.

1900. Western, Hugh, Egyptian State Railway, Cairo, Egypt.

1888. Whichello, Richard, Messrs. Victor Uslaender and Co., 33 Rua do General Camari, Caixa 542, Rio de Janeiro, Brazil: (or 44 Trumpington Street, Cambridge.)

1900. Widdowson, Ernest Leedham, Messrs. Jonas Drake and Son, Ovenden, Halifax.

1889. Wigham, John Cuthbert, Edmundsons' Electricity Corporation, Broad Sanctuary Chambers, Westminster, S.W.

1901. Wilkinson, Frank, Peel House, Shawforth, Rochdale.

1898. Williams, Norman C., 102 Regent Street, London, W.

1900. Williams, Vernon Ingram Norbury, 75 Shakespeare Street, Chorlton-on-Medlock, Manchester.

1890. Wilson, Alexander Cowan, Osgathorpe Hills, Sheffield.

1897. Wilson, Robert James, 228 Goldhawk Road, London, W.

1900. Winch, Apsley Brooke, Messrs. Brazil, Holborrow and Straker, 110 Cannon Street, London, E.C.

1901. Windsor, Arthur Whalesby, care of Samuel Puplett, 47 Victoria Street  
Westminster, S.W.

1901. Wingate-Saul, Arthur Wingate, Old Parkside, Caton, Lancaster.

1899. Wray, Romulus Paul, 42 Tollington Road, Holloway, London, N.

1898. Wylie, Reginald Charlton, School of Mines, Camborne.

1900. Yates, Donald Russell Martin, Messrs. James Simpson and Co., Lowfield  
Foundry, Balderton, Newark.

1891. Yerbury, Frederick Augustus, Worthington Pumping Engine Co.,  
153 Queen Victoria Street, London, E.C.; and 21 Tudor Road, Kingston-  
on-Thames.



# TOPOGRAPHICAL LIST OF MEMBERS.

## BRITISH ISLES. ENGLAND.

<b>Altringham—</b>		<b>Bedford (cont.)—</b>		<b>Birmingham (cont.)—</b>	
Brogden, H.	M.	Howard, J. H.	M.	Clarke, E. F.	M.
Edmondson, A. R.	A.M.	Steinmetz, A. S. B.	A.M.	Conaty, G.	M.
Goultby, W. R.	M.	Trunchion, W. T. F.	A.M.	Cooper, W. J.	A.M.
Hopkinson, J.	M.	Wolff, C. E.	A.M.	Corby, M.	A.M.
Pollitt, H.	M.			Cox, J.	M.
Rowland, B. R.	M.			Dews, F.	M.
<b>Ashford—</b>				Dickinson, A.	M.
Masterton, J. F.	M.	Alleyne, Sir J. G. N.	M.	Dickinson, R. H.	M.
Sands, H.	M.			Docker, F. D.	A.
Stirling, J.	M.	Russell, F.	A.M.	Douglass, A. E.	A.M.
<b>Ashton-under-Lyne—</b>				Dugard, W. H.	M.
Lees, S.	M.			Edwards, A. E. A.	M.
<b>Banbury—</b>				Edwards, E. L.	A.M.
Cunningham, H.	M.			Everitt, N. H.	M.
Nasbey, G. W.	M.			Ewen, T. B.	M.
Samuelson, The Rt.				Foster, J. S.	M.
Hon. Sir B.	M.			Garland, F. J.	A.M.
Samuelson, E.	M.			Garrard, C. R.	M.
Smith, M. H.	A.M.			Gibbins, R. C.	M.
<b>Barking—</b>				Goodman, A. C.	A.M.
Seabrook, A. H.	A.M.			Graham, H. B.	A.M.
<b>Barnsley—</b>				Greenwood, W. H.	M.
Allport, H. A.	M.			Guest, J. J.	M.
<b>Barrow-in-Furness—</b>				Hall, J. W.	M.
Bradley, C. G.	G.			Hall, R. F.	A.M.
Caswell, C. H.	G.			Hall, T. B.	M.
Pettigrew, W. F.	M.			Harrison, C. G.	M.
Thackeray, T.	M.			Haskew, F. J. T.	A.M.
Wilkins, G. C.	A.M.			Heaton, A.	G.
Winlaw, W. W.	A.M.			Heaton, C.	M.
Yeames, J. L.	A.M.			Heaton, G.	M.
<b>Bath—</b>				Hipkins, W. E.	M.
Day, A. G.	A.M.			Hodgson, R. B.	A.M.
Horner, J. G.	A.M.			Holmes, H.	A.M.
Hunton, W.	G.			Jackson, R.	A.
Langdon, W.	M.			Jefferies, T.	M.
Mogg, H. H.	G.			Jones, E.	M.
Pitt, W.	M.			Jones, F.	M.
<b>Batley—</b>				Keen, A.	M.
Bagshaw, W.	M.			Keen, H. A.	G.
<b>Bedford—</b>				Kenway, W. E.	A.
Allen, R. W.	M.			Ketley, C. B.	A.M.
Allen, W. H.	M.			Lea, H.	M.
Fiegehen, E. G.	A.M.			Lloyd, G. B.	M.
Grafton, A.	M.			Lloyd, S. Z.	M.
Harris, L. P.	M.			Mackesy, W.	G.
Howard, G.	G.			Mapplebeck, E.	M.
				Marks, A. P.	G.
				Marks, E. C. R.	M.
				Marshall, J. G.	M.
				Marshall, W. B.	M.
				Marshall, W. P.	M.

<b>Birmingham (cont.)—</b>		<b>Blackpool (cont.)—</b>		<b>Bridgwater—</b>	
Martin, G. B.	A.M.	Quin, R. C.	M.	Wills, F.	M.
Mitton, E. M., Jun.	M.	Speight, J. W.	A.M.	<b>Bridport—</b>	
Mitton, T. E.	A.M.			Harris, H. N.	A.M.
Morecom, A.	M.	<b>Blaydon-on-Tyne—</b>			
Mountain, C. G.	M.	Douglass, W. J.	M.		
Nettlefold, G.	A.M.	Prosser, R. W. O.	G.	<b>Brierley Hill—</b>	
Newman, R. W.	A.M.			Mantle, H. G.	M.
Norton, A.	A.M.	<b>Blyth—</b>		Smith, H.	M.
Osmond, F. J.	M.	Archbold, J. G.	M.	<b>Brighouse—</b>	
Parrott, T. H.	M.			Reside, A.	G.
Parsonage, W. R.	A.M.	<b>Bolton—</b>			
Pedley, H. L.	A.M.	Atcock, F. W.	A.M.	<b>Brighton—</b>	
Penn, F. J.	M.	Bromiley, W. J.	M.	Armstrong, G. E.	A.M.
Piercy, H. J. T.	M.	Chatwood, S.	M.	Billinton, R. J.	M.
Plant, G.	A.	Chatwood, S. R.	M.	Cameron, R. B.	A.M.
Price, R.	A.M.	Cottrill, J. O.	M.	Johnston, J.	M.
Prior, J. D.	A.	Forrest, H. S.	M.	North, H.	A.M.
Pugh, C. H.	M.	Hamer, W.	M.	O'Reilly, F. J.	A.M.
Reynolds, A. M.	A.M.	Hargreaves, J. H.	M.	Smart, L. S.	M.
Richey, W. F. A.	A.M.	Harwood, R.	M.	Waugh, H. N. D.	A.M.
Robson, W. H.	M.	Hoy, H. A.	M.		
Rogers, W. I.	A.M.	Hudson, J. G.	M.	<b>Bristol—</b>	
Ronald, H.	M.	Hughes, G.	M.	Baber, S. E.	A.M.
Revere, G. R.	A.M.	Jackson, H. L.	A.M.	Ellery, H. G.	M.
Sanders, G.	A.M.	Jones, A. D.	A.M.	Fiddes, W.	M.
Sangster, C.	A.M.	Jones, C. F.	M.	Fry, A.	M.
Shackleton, A. L.	M.	Macbeth, N.	M.	Jolin, P.	M.
Sharp, T. B.	M.	Mackay, C. O.	M.	Munro, E. M.	M.
Shirlaw, A.	M.	Montgomery, C. H.	G.	Munro, Prof. J.	M.
Smith, J.	M.	Musgrave, W. M.	M.	Parkinson, H. C.	M.
Somers, W.	M.	Norton, S. J.	A.M.	Pearson, H. W.	M.
Stockton, P. S.	A.M.	O'Brien, H. E.	G.	Soyres, B. de	G.
Suffield, F. W.	A.M.	Richardson, H. A.	M.	Soyres, F. J. de	M.
Talbot, W. J.	A.M.	Sharp, J.	M.	Stagg, W.	M.
Tangye, G.	M.	Shawcross, G. N.	A.M.	Stoerth, G. K.	M.
Tangye, H. L.	M.	Taylor, F. C.	G.	Strong, A. G.	A.M.
Tangye, J.	M.	Thornton, H. R.	M.	Swaine, J.	M.
Tangye, J. H.	G.	Wood, H.	M.	Thompson, J. R.	M.
Taunton, R. H.	M.			Watts, J.	M.
Taylor, J. S.	M.	<b>Boston—</b>			
Thomas, W. F.	A.M.	Lovell, S. G.	A.M.	<b>Bromley, Kent—</b>	
Thornbery, W. H.	M.	Simonds, W. T.	M.	Bennett, H. A. D.	G.
Threlfall, G.	A.M.				
Titley, A.	M.	<b>Bournemouth—</b>		<b>Broseley—</b>	
Trafford, J. P.	G.	Bulfin, I.	A.M.	Garrard, G. M.	M.
Turner, A.	M.				
Walker, C. B.	G.	<b>Bradford—</b>		<b>Burton-on-Trent—</b>	
Walker, T. F.	M.	Appleby, H. W.	A.M.	Boffey, W.	M.
Walker, Z., Jun.	M.	Asquith, W. G.	A.M.	Daniel, E. F.	M.
Wall, C. H.	M.	Charnock, G. F.	M.	Goff, J.	M.
Ward, T. H.	M.	Dyson, J. D.	G.	Hodges, F. G.	M.
Warden, W. E.	M.	Ellis, A. D.	M.	Metcalfe, F. S.	M.
Wasdell, T.	A.M.	Ellis, R. H.	G.	Perks, J.	M.
Wearing, J. E.	M.	Feather, R.	A.	Ranger, R.	M.
Wheeler, G. U.	A.M.	Foster, E. H.	A.M.	Smith, J.	M.
Wheeler, P.	M.	Foster, H. A.	M.	Stephenson-Peach,	M.
Whitehouse, A.	A.M.	Graham, J.	M.	W. J.	M.
Winn, C. R.	M.	Helme, E. T.	M.	Thornehill, R.	M.
Wiseman, A.	A.M.	Hodgson, G. H.	M.	Thornley, G.	M.
Woollen, T. H.	M.	McTaggart, J.	A.M.		
Worsley, P. J., Jun.	A.M.	Morley, H. W.	M.		
<b>Birtley—</b>		Newton, G. H.	G.		
Snoxell, G. E.	M.	Nutter, H. N.	G.		
<b>Blackburn—</b>		Rycroft, J. E.	A.M.		
Coddington, Sir W.	M.	Scott, A. F.	M.		
Hargraves, R.	M.	Sharp, W.	G.		
Spencer, H. W.	A.M.	Smith, W. H.	M.		
Thom, W.	M.	Sutcliffe, F. J. R.	M.		
<b>Blackpool—</b>		Taylor, A. J.	A.M.		
Fraser, W. S.	G.	Vaux, W.	M.		
Lloyd, C.	M.	Wigglesworth, F.	A.M.		
<b>Bradford-on-Avon—</b>					
Oswald, G. H.	A.M.				
<b>Braintree—</b>					
Tabor, E. H.	A.M.				

<b>Bury St. Edmunds—</b>	
Mumford, C. E.	M.
Stevens, T.	M.
<b>Cambridge—</b>	
Rowe, J.	A.M.
Warren, H. J., Jun.	M.
Wylie, R. C.	G.

Cambridge—			Coventry (cont.)			Derby (cont.)—		
Darwin, H.	M.	Craig, A.	A.M.	Hulsey, C. T.	A.M.	Haslam, Sir A. S.	M.	M.
Ewing, Prof. J. A.	M.	Harmer, O.	M.	Haslam, A. V.	G.	Haslam, W. G.	M.	M.
Taite, G. C.	G.	Herbert, A.	M.	James, T.	M.	Johnson, S. W.	M.	M.
<b>Carlisle—</b>		Holroyd, V. A.	A.M.	Jones, C. H.	M.	Jones, R.	M.	M.
Dove, G.	M.	Iden, G.	M.	Mills, R.	M.	Moulton, A. J.	M.	M.
Pratchett, J.	M.	Lea, R. H.	M.	Osborne, T. P.	M.	Ottewell, A.	M.	M.
Pratchett, W.	M.	Leechman, G. D.	A.	Owen, T.	M.	Pee, W. G.	M.	M.
<b>Carnforth—</b>		Lupton, K.	M.	Peet, W. G.	M.	Rosevere, R. G.	A.M.	A.M.
Snelus, G. J.	M.	McCormack, A. J.	A.M.	Smith, J. W.	M.	Smith, J. W.	M.	M.
Worsdell, T. W.	M.	Meek, J.	M.	Surtees, H. W.	M.	Swingier, A.	M.	M.
<b>Chatham—</b>		Meredith, J.	M.	Whitehead, R. D.	A.			
Bruce, R. A.	A.M.	Pugh, C. V.	M.					
<b>Chatteris—</b>		Pugh, J. V.	A.M.					
Esson, J.	M.	Starley, W.	A.					
<b>Chelmsford—</b>								
Butcher, W. E.	A.M.	<b>Cradley—</b>						
Crompton, R. E. B.	M.	Swindell, J. S. E.	M.					
Fox, E. J.	A.M.	<b>Cradley Heath—</b>						
French, A. H.	A.M.	Cowdell, H. C.	M.					
Horsnaill, W. O.	A.M.	<b>Crayford—</b>						
Somerville, F. H.	A.M.	Heath, G. W.	M.					
<b>Cheltenham—</b>		<b>Crewe—</b>						
Goold, W. T.	M.	Eaton-Shore, G.	M.					
Kilgour, M. H.	M.	Footner, H.	M.					
Phillott, G. H.	A.M.	Godson, E. H.	A.M.					
<b>Chester—</b>		Oke, F. R.	M.					
Carter, W.	M.	Whale, G.	M.					
Gritten, J.	A.M.	<b>Croydon—</b>						
Mansfield, E.	M.	Dickinson, W.	M.					
Shaw, W. C.	A.M.	Lucy, A. J.	M.					
<b>Chesterfield—</b>		<b>Dagenham—</b>						
Clark, G.	M.	Williams, A. E.	M.					
Clench, F.	M.	<b>Darlington—</b>						
Gandy, F.	M.	Baister, C.	M.					
Macdonald, J. A.	M.	Baldwin, C. E.	A.M.					
Morris, W. J.	A.M.	Butler, H. W.	M.					
Pilkington, H.	M.	Douglas, C. P.	M.					
<b>Chester-le-Street—</b>		Hollis, H. W.	M.					
Parish, C. E.	M.	Kendal, R.	M.					
Wood, Sir L.	M.	Raven, V. L.	M.					
<b>Chippenham—</b>		Smeddle, J. H.	M.					
Adams, A. E.	A.M.	Stamer, A. C.	M.					
<b>Chipping Sodbury—</b>		Wheeler, O.	A.M.					
Manton, A. W.	M.	<b>Dartford—</b>						
<b>Claygate—</b>		Bell, W.	A.M.					
Schutte, F. A.	A.M.	Brier, H.	M.					
<b>Cleckheaton—</b>		English, Lt.-Col. T.	M.					
Hodgson, H. E.	M.	Hesketh, E.	M.					
<b>Coalbrookdale—</b>		<b>Dartmouth—</b>						
Norris, W. G.	M.	Knock, E. C.	A.M.					
<b>Colchester—</b>		<b>Darwen—</b>						
King, T. S.	M.	MacIvor, A.	A.M.					
Paxman, J. N.	M.	Mills, S. J. A.	A.M.					
Plante, S. G.	G.	<b>Deal—</b>						
<b>Coniston—</b>		Cowper, C. E.	M.					
Warsop, T.	M.	<b>Derby—</b>						
<b>Consett—</b>		Arnold, J. A.	M.					
Douglas, W. S.	A.M.	Bell, F.	G.					
Scott, J.	M.	Coles, H. J.	M.					
<b>Coventry—</b>		Deeley, R. M.	M.					
Bamber, H. W.	A.M.	Done, F. E. M.	A.M.					
Bird, W. H.	M.	Eastwood, T. C.	M.					
Brett, A. W.	A.M.	Edwards, W. B.	G.					
		Fowler, H.	M.					
		Guest, C. H.	M.					

<b>Fence Houses—</b>		<b>Hanley Castle—</b>		<b>Hyde—</b>	
Lishman, T.	M.	Maylor, W.	M.	Adamson, D.	M.
<b>Fleetwood—</b>	G.	<b>Harrogate—</b>		Adamson, J.	M.
Foster, S.		Wilkinson, G.	M.	Bedson, J. P.	M.
<b>Gainsborough—</b>	M.	<b>Harrow—</b>		Beeley, T.	M.
Cribb, F. J.	M.	Scott, N. L.	A.M.	Beeley, T. C.	M.
Marshall, H. D.	M.			Goodfellow, G. B.	M.
Marshall, H. J.	M.	<b>Hartlepool—</b>		<b>Ightham—</b>	
Marshall, J.	M.	Cheesman, W. T.	M.	Bowker, A. F.	M.
Newell, E.	A.M.	Harding, J. C.	M.	<b>Ilford—</b>	
<b>Gateshead—</b>	G.	Morison, D. B.	M.	Carstairs, G. L.	A.M.
Bruce, J. G.	M.	Richardson, Sir T.	M.	Lyddon, G. E.	A.M.
Carrick, H.	M.			Seabrook, A. W.	M.
Collinson, A.	M.	<b>Harwich—</b>		Taplin, J. M.	M.
Cowens, W. E.	M.	Blenkinsop, J. N.	M.	<b>Ipswich—</b>	
Smith, W. M.	M.			Arnold, A. A.	A.M.
Walker, H.	M.	<b>Hawkhurst—</b>		Ball, E. B.	A.M.
Worsdell, W.	M.	Gregory, G. F.	A.	Davies, E. J.	M.
<b>Gloucester—</b>	M.			Ransome, J. E.	M.
Dorman, W. S.	M.	<b>Hayle—</b>		Ripley, P. E.	M.
Fielding, J.	M.	Harvey, F. H.	M.	Turner, F.	M.
Higgs, A. F.	G.			Turner, F. W.	A.M.
Howard, J. W.	M.	<b>Hednesford—</b>		<b>Isleworth—</b>	
Jones, S. G.	M.	Bumsted, F. D.	M.	Beck, E.	M.
Mindo, A. W.	A.M.	Chandler, N.	M.	<b>Jarrow—</b>	
Platt, F. J.	M.	Williamson, R. S.	A.	Reed, J. W.	M.
Scott, C. H.	M.	<b>Hemel Hempstead—</b>		<b>Keighley—</b>	
Sisson, W.	M.	Fendick, W.	A.M.	Clapham, T. A.	G.
Slater, A.	M.			Cope, H. C.	M.
<b>Goole—</b>	M.	<b>Henley-on-Thames—</b>		Longsdon, H. C.	M.
Dunn, M.		Mackenzie, K. R.	A.	Lund, H.	A.M.
<b>Grantham—</b>	M.	<b>Highbridge—</b>		Spencer, J.	M.
Hornby, J.	M.	Whitaker, A.	M.	Wright, I. H.	A.M.
James, C. Jun.	M.	<b>Hitchin—</b>		<b>Kelvedon—</b>	
Roberts, D.	M.	Daintree, T. E.	M.	Peache, J. C.	M.
<b>Gravesend—</b>	M.	<b>Hove—</b>		<b>Kenilworth—</b>	
Muirhead, R.	M.	Dodge, S. B.	G.	Stockton, J. S.	M.
Sandford, H.	M.	Hill, R. A.	M.	<b>Kettering—</b>	
<b>Great Missenden—</b>	M.	<b>Howden—</b>		Lea, A. H.	A.M.
Whitby, A. G.		Briggs, C.	M.	Scott, H. J.	M.
<b>Great Yarmouth—</b>	G.	<b>Huddersfield—</b>		Wicksteed, C.	M.
Marten, H. B.	A.M.	Broadbent, W.	M.	<b>Kew—</b>	
Pertwee, H. A.		Broughton, H.	G.	Allen, J. E.	A.M.
<b>Grimsby—</b>	M.	Dunolly, A.	A.M.	<b>Kidderminster—</b>	
Bulwer, E. H. E.	M.	Holmes, P. F.	M.	Bradley, F.	M.
Wotherspoon, J. D.	M.	Hopkinson, A. H.	G.	<b>Kidsgrave—</b>	
<b>Guildford—</b>	A.M.	Hopkinson, J.	M.	Pooley, H., Jun.	M.
Burne, E. L.	A.M.	Larard, C. E.	M.	<b>King's Lynn—</b>	
Dickinson, W.		Peet, W. W.	A.M.	Allyne, B. H. N.	M.
<b>Halifax—</b>	M.	Pogson, J.	M.	Weaver, H. J.	A.M.
Bentley, W.	M.	Russell, H.	A.M.	<b>Kingston-on-Thames—</b>	
Butler, J.	M.	Whiteley, W.	M.	Edgcombe, J. E.	M.
Campbell, H.	M.	<b>Hull—</b>		Headley, St. J. B.	G.
Gill, C. E.	G.	Bancroft, F. J.	M.	<b>Knowle—</b>	
Marshall, L.	M.	Brodrick, W. H.	M.	Barker, T. B.	M.
Marsland, J. S.	M.	Cooper, W.	M.	<b>Knutsford—</b>	
Naylor, J.	A.M.	Coulman, J.	M.	Bowman, F. H.	A.
Naylor, S.	M.	Fourny, H. F.	M.	Longridge, R. C.	M.
Smith, M. H.	M.	Harrison, W. R.	M.	<b>Lancaster—</b>	
Widdowson, E. L.	G.	Heath, C. L. E.	A.M.	Harling, W.	A.M.
<b>Hampton Wick—</b>	G.	Jenkin, T. H.	M.	Shackleton, W. C.	M.
Lander, P. V.		Pearson, F. H.	M.	Tester, W. A.	A.M.
<b>Hanley—</b>	A.M.	Seaton, A. E.	M.	Wingate-Saul, A. W.	G.
Smith, T. J.		Stirling, M.	M.		
		Thornton, F. W.	M.		
		White, A. E.	M.		
		<b>Hungerford—</b>			
		Cottrell, G.	A.M.		
		Rose, S. D.	A.M.		

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Cannell, W.	A.M.	Shepherd, James	M.	Campbell, A. C.	M.
Main, G. P.	A.M.	Shepherd, John	M.	Campbell, J. A. M.	M.
Leamington Spa—		Smith, F. H.	A.M.	Chubb, R.	A.
Bower, J. W.	M.	Smith, T.	M.	Clarkson, C.	M.
Preen, A. H.	G.	Sutcliffe, E. R.	A.M.	Comerford, E.	A.M.
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Baxandall, R. F.	G.	Towler, A.	M.	Cottrell, S. B.	M.
Beanland, F.	A.	Wardle, E.	M.	Crawford, J. F.	A.M.
Beaumont, Prof. R.	M.	Watney, T. S.	M.	Dall, J.	M.
Berry, H.	M.	Watson, G.	M.	Dalrymple, A.	M.
Blackburn, G. W.	M.	Watson, J. F.	M.	Dent, C. H.	M.
Boorman, J. A.	M.	Whitehouse, E. E. J.	M.	Eastwood, C.	M.
Booth, J. W.	M.	Wicksteed, J. H.	M.	Edmiston, J. B.	M.
Bottomley, J. W.	M.	Wilson, T. S.	M.	Geddes, C.	M.
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Butler, H. M.	M.			Hele-Shaw, Prof. H. S.	
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Evers, J. H.	M.	Richards, H. W. H.	M.	Miller, T. L.	M.
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Goodman, Prof. J.	M.			O'Brien, B. T.	M.
Graham, M.	M.	Leiston—		O'Connor, C.	M.
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Green, W. P.	M.	Garrett, F., Jun.	A.M.	Parry, A.	M.
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Hartnell, W.	M.	Collis, A. E.	M.	Scott, F. M.	M.
Holgate, C. H.	M.	Duckering, C.	M.	Scott, W. G.	M.
Hudson, R.	M.	Epton, W. M.	A.M.	Shield, H.	M.
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Jackson, T.	M.	Gash, L. C.	A.M.	Smith, J. R.	M.
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Jeffreys, E. H.	M.	Livens, F. H.	M.	Steel, T. J.	A.M.
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Lupton, H.	M.				
Lupton, N. D.	G.				
Lupton, W. W.	M.				
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A. H.	M.				
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				Acfield, W. C.	A.M.
				Acland, Captain	
				F. E. D.	M.
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				Adams, W. J.	M.
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				Aiton, J. A.	M.
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				Allan, G.	M.
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Chapman, J. G. M.  
Chapman, L. M.  
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Davies, E. J. M. M.  
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Davis, H. C. A.M.  
Davy, W. J. M.  
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Donkin, H. J. M.  
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Douglas, L. M. A.  
Douglas, W. J. A.M.  
Douglass, W. T. M.  
Dowlen, W. E. A.  
Down, P. G.  
Dowson, J. E. M.  
Drayton, T. J. B. G.  
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Drown, A. E. G.  
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Drummond, G. W. M.  
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Dunell, G. R. M.  
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Harrison, Capt. G. H. M.  
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Harvey, Sir R. M.  
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Hughes, E. S. B. G.  
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Kensington, F. M.  
Kerr, J. B. A. M.  
King, B. T. A.  
King, C. P. M.  
Kirk, P. R. A. M.  
Kirkaldy, J. M.  
Kirkaldy, W. G. M.  
Kitsell, A. E. G.  
Kitto, W. H. A. M.  
Klein, T. M.  
Knap, C. M.  
Knight, J. P. M.  
Lake, W. R. M.  
Langdon, H. A. W. G.

## London (cont.)—

Lange, F. M. T. M.  
Latham, B. M.  
Latta, J. G. M.  
Lawson, H. J. A.M.  
Leaf, H. M. M.  
Lee, C. R. M.  
Lee, J. C. F. M.  
Legros, L. A. M.  
Leonard, R. M. A.  
Leopard, C. W. M.  
Lester, J. M. A.M.  
Lewis, J. S. M.  
Light, G. M. A.  
Lightfoot, T. B. M.  
Lineham, Prof. W. J. M.  
List, J. M.  
Livingston, J. M.  
Livsey, J. E. M.  
Lloyd, R. S. M.  
Lobb, C. M.  
Lockhart, W. S. M.  
Longridge, Capt. C. C. M.  
Lorrain, J. G. M.  
Low, Prof. D. A. M.  
Lucas, A. M.  
Lund, J. A.M.  
MacCarthy, S. M.  
MacKenzie, J. W. M.  
MacQueen, J. M.  
Mactear, J. M.  
Maginnis, J. P. M.  
Main, J. P. S. A.M.  
Mair-Rumley, J. G. M.  
Malan, E. de M. M.  
Mansergh, J. M.  
Mansfield, E. A. M.  
Mansfield, J. F. A.M.  
Marks, G. C. M.  
Marriner, J. G.  
Marriner, W. W. M.  
Marsden, A. G.  
Marshall, A. W. M.  
Marshall, P. A.  
Martin, J. A.M.  
Martindale, W. B. H. M.  
Massey, W. H. M.  
Matheson, H. C. M.  
Maw, H. A.M.  
Maw, W. H. M.  
Maxim, Sir H. S. M.  
Mayhew, M. J. A.  
Mayo, C. R. G.  
McBean, J. A.M.  
McClean, F. M.  
McCormack, W. J. A.M.  
McDermott, H. G.  
McDonald, J. M.  
McDonnell, A. M.  
McFerran, H. A. A.M.  
McInnes, D. W. M.  
McLaren, R. L. M.  
Meek, G. T. A.M.  
Meik, C. S. M.  
Melhuish, F. M.  
Melville, W. W. M.  
Mendham, C. F. M.  
Merrifield, L. L. M.  
Merryweather, J. C. M.  
Messer, E. H. A.M.  
Michele, V. D. de M.  
Michell, W. H. G.  
Middleton, R. E. M.  
Miers, F. C. M.

## London (cont.)—

Millis, C. T. M.  
Mills, A. E. A.M.  
Mitchell, G. M.  
Moberly, C. H. M.  
Moffatt, A. C. M.  
Mooleycey, C. S. T. M.  
Monkhouse, E. W. M.  
Moore, W. J. P. M.  
Moore, W. L. M.  
Moreland, R. M.  
Morris, E. L. M.  
Morris, F. S. M.  
Morris, R. E. A.M.  
Mower, G. A. M.  
Murdoch, A. G. G.  
Murray, K. S. M.  
Myers-Beswick, W. B. M.  
Needham, J. E. M.  
Nesbit, D. M. M.  
New, A. W. A.M.  
Newton, P. M.  
Newton, T. G. M.  
Nicholl, J. J. M.  
Noakes, T. J. M.  
North, G. M.  
Northcott, W. H. M.  
Northey, P. W. M.  
O'Donnell, J. P. M.  
Ogden, F. M.  
Ogle, P. J. M.  
Okes, J. C. R. M.  
Orcutt, H. F. L. M.  
Ormsby, A. S. A. M.  
Oughterson, G. B. M.  
Outram, F. D. M.  
Page, D. A.  
Paget, B. A.  
Palmer, B. J. A.M.  
Parker, F. G. W. A.M.  
Parker, H. A. A.M.  
Parlby, V. G.  
Parrack, W. T. M.  
Parry-Jones, R. M.  
Parsons, Hon. R. C. M.  
Passmore, F. B. M.  
Patchell, W. H. M.  
Paterson, R. M. A.M.  
Payne, F. G. G.  
Payne, H. A.M.  
Peacock, W. J. P. A.  
Peech, H. A.  
Peech, W. H. A.  
Pendred, L. St. L. A.M.  
Pendred, V. M.  
Penn, J. M.  
Penn, R. W. G.  
Penn, W. M.  
Penn, W. C. A.M.  
Perry, E. W. F. G.  
Peters, L. B. A.M.  
Petter, E. W. A.M.  
Phillips, L. M.  
Phillips, R. E. M.  
Phillips, R. M. A.  
Phillips, W. M.  
Philpot, H. P. G.  
Place, J. M.  
Plaister, W. E. G.  
Plant, D. T. A.M.  
Pogson, A. L. M.  
Poland, W. M.  
Pollock, J. M.  
Pope, J. G. M.

## London (cont.)—

Porter, S. W. A.M.  
Potts, B. L. F. M.  
Powel, H. C. M.  
Powell, D. T. A.M.  
Power, A. C. G.  
Powles, H. H. P. M.  
Powrie, W. M.  
Powrie, W. L. A.M.  
Preece, Sir W. H. M.  
Price, C. E. M.  
Price, H. S. M.  
Price-Williams, R. M.  
Price-Williams, S. W. M.  
Pritchard, R. C. G.  
Pryce, H. J. M.  
Pullen, Prof. W. W. F. M.  
Puplett, S. M.  
Pyne, Sir T. S. M.  
Quilter, F. R. A.M.  
Rait, H. M. M.  
Raleigh, C. A.M.  
Ransom, H. B. G.  
Rapley, F. H. M.  
Rapson, J. T. A.M.  
Rasey, A. E. A.M.  
Read, G. H. A.M.  
Redfern, C. G. A.M.  
Reed, Sir E. J. M.  
Reeves, C. I. G.  
Rennie, G. B. M.  
Rennie, J. A. G.  
Rennie, J. K. M.  
Restler, J. W. M.  
Reynolds, G. B. M.  
Reynolds, T. B. G.  
Rice, T. S. M.  
Richards, J. G. G.  
Riches, C. T. H. A.M.  
Richmond, W. F. M.  
Ridley, C. O. A.M.  
Riviere, P. L. A.M.  
Roberts, W. M.  
Robertson, L. S. M.  
Robertson, W. H. A. G.  
Robinson, E. M. M.  
Robinson, F. A. M.  
Robinson, Prof. H. M.  
Robinson, H. G.  
Robinson, S. G. A.M.  
Robson, G. M.  
Rock, J. P. A.M.  
Rofe, H. M.  
Rofe, W. A.M.  
Rolle, J. H. H. M.  
Rootham, H. M. G.  
Roots, J. D. M.  
Rosenthal, J. H. M.  
Rossiter, J. T. A.M.  
Rothschild, L. V. G.  
Rounthwaite, H. M. M.  
Rowcliffe, W. C. A.  
Russell, B. M.  
Sachs, E. O. A.  
Salt, G. M.  
Sampson, J. L. M.  
Sandberg, C. P. M.  
Sanders, R. D. M.  
Sauvée, A. M.  
Saxby, J. M.  
Saxelby, H. R. G.  
Schönheyder, W. M.  
Schurr, A. E. M.  
Secchi, L. A.M.

TOPOGRAPHICAL LIST OF MEMBERS.

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**London (cont.)—**

Segundo, E. C. de A.M.  
Sennett, A. R. M.  
Seymour, W. F. E. A.M.  
Sharp, S. M.  
Sharpley, R. G.  
Sheffield, F. G. A.M.  
Shone, L. M.  
Siemens, A. M.  
Sillar, A. M. M.  
Sime, W. M.  
Simmance, J. F. M.  
Simpson, A. T. M.  
Simpson, C. L. M.  
Simpson, E. P. A.  
Simpson, J. H. M.  
Simpson, L. S. A.M.  
Small, J. M. M.  
Smeit, J. D. M.  
Smith, F. H. A.M.  
Smith, F. S. A.M.  
Smith, H. M.  
Smith, J. B. A.M.  
Smith, J. F. G. A.M.  
Smith, Prof. R. H. M.  
Smith, R. R. G.  
Smith, R. T. M.  
Smith, W. H. A.  
Smith, W. T. G.  
Sorabji, S. M.  
Southwell, F. C. M.  
Spencer, A. M.  
Spencer, A. G. M.  
Spencer, A. J. G.  
Spencer, C. J. M.  
Spencer, H. B. M.  
Spiller, C. A.M.  
Spooner, G. P. M.  
Spooner, Prof. H. J. M.  
Squire, G. F. A.M.  
Stabler, J. M.  
Stanger, W. H. M.  
Stanley, H. F. M.  
Stannah, J. M.  
Stanton, F. B. M.  
Sterne, L. M.  
Stevens, E. C. A.M.  
Stevens, J. M.  
Stevens, P. H. G.  
Stevenson, H. M.  
Stocks, H. B. A.M.  
Straker, S. M.  
Strickland, F. M.  
Sugden, T. M.  
Summerfield, R. D. A.M.  
Sutton, J. W. M.  
Sutton, T. M.  
Swaine, A. T. A.M.  
Swan, J. W. M.  
Swinburne, J. M.  
Taite, J. C. M.  
Taylor, A. M.  
Taylor, E. B. M.  
Taylor, G. S. G.  
Taylor, J. A.  
Taylor, J. H. A.  
Taylor, P. M.  
Taylor, W. I. M.  
Tennant, W. J. A.M.  
Terry, S. H. M.  
Thomas, J. F. I. A.M.  
Thomas, J. L. M.  
Thomas, P. A. M.  
Thomas, W. H. M.

**London (cont.)—**

Thompson, E. H. G.  
Thompson, G. W. M.  
Thompson, T. A.M.  
Thornycroft, J. E. A.M.  
Thornycroft, J. I. M.  
Thorpe, W. B. G.  
Timmis, I. A. M.  
Tomkins, W. S. M.  
Tottle, E. G. A.M.  
Touch, J. E. M.  
Tower, B. M.  
Townsend, W. A.M.  
Tregoning, W. H. G.  
Trentham, W. H. M.  
Trier, F. M.  
Trotter, A. P. M.  
Turner, H. A. A.M.  
Turner, J. W. A.M.  
Twelvetrees, W. N. M.  
Tyler, Sir H. W. M.  
Umney, H. W. M.  
Upward, A. R. M.  
Urie, R. W. M.  
Valon, W. A. M. M.  
Vavasseur, J. M.  
Vernon, C. E. M.  
Vesian, J. S. E. de M.  
Vezey, A. E. A.M.  
Vigers, G. A. A.M.  
Viney, H. G.  
Waddington, J. M.  
Waddington, R. M.  
Waddington, S. S. G.  
Wade, F. R. G.  
Wadham, A. A.  
Wainwright, J. W. M.  
Walker, F. J. M.  
Walker, G. M.  
Walker, H. C. M.  
Walker, R. H. G.  
Walker, S. F. M.  
Walker, W. G. M.  
Walker, W. P. A.M.  
Wallach, L. C. A.  
Walton, D. G.  
Wans, O. G.  
Warburton, J. S. M.  
Ward, J. C. A.M.  
Warden-Stevens, F. J. A.M.  
Warner, H. M. G.  
Warner, J. S. G.  
Warren, F. L. M.  
Watchurst, C. L. M.  
Watkins, A. M.  
Watson, G. M.  
Watson, G. C. M.  
Watson, J. W. M.  
Watson, R. A.M.  
Waynfirth, H. M. A.M.  
Weatherburn, R. M.  
Webster, J. J. M.  
Wellington, J. M. A.M.  
Wells, S. H. A.M.  
West, E. H. M.  
West, N. J. M.  
Western, C. R. M.  
Western, M. R. M.  
Weston, G. C. A.M.  
White, D. H. A.M.  
White, Sir W. H. M.  
Whitehead, A. M.  
Wigham, J. C. G.

**London (cont.)—**

Wigzell, E. E. M.  
Wildy, W. L. M.  
Wilkinson, E. R. M.  
Williams, C. E. A.M.  
Williams, H. A.M.  
Williams, J. E. A.M.  
Williams, N. C. G.  
Williams, T. D. M.  
Williams, W. D. A.M.  
Williams, W. F. M. M.  
Williamson, E. A.M.  
Willis, E. A.M.  
Wilson, J. M.  
Wilson, J. C. G. M.  
Wilson, J. W. M.  
Wilson, R. J. M.  
Wilson, R. J. G.  
Wimshurst, J. E. M.  
Winch, A. B. G.  
Windsor, A. W. G.  
Wingfield, C. H. M.  
Wingfield, D. C. M.  
Winston, H. H. A.M.  
Wise, W. L. M.  
Wood, C. A.M.  
Wood, E. M. M.  
Wood, J. M. M.  
Wood, S. H. M.  
Wood, W. M.  
Woodall, C. M.  
Woodhouse, W. B. A.M.  
Woof, T. M.  
Worger, D. F. M.  
Worssam, H. J. M.  
Worthington, E. M.  
Wray, R. P. G.  
Wright, B. H. M.  
Wright, E. A.M.  
Wright, F. A.M.  
Wright, H. T. A.M.  
Wright, James M.  
Wright, Joseph M.  
Wright, R. O. A.M.  
Wright, W. M.  
Yarrow, A. F. M.  
Yerbury, F. A. G.  
Young, G. S. M.  
Young, H. J. A.M.  
Young, H. W. A.M.  
Young, J. M.

**Longton—**

Mitcheson, G. A. M.

**Loughborough—**

Andrews, F. E. A.M.  
Burder, W. G. M.  
Coitman, J. C. M.  
Rixom, A. J. M.

**Lowestoft—**

Brooke, J. W. M.

**Luton—**

Holroyd, J. M.  
Wiseman, E. A.

**Lynn—**

Dodman, A. M.

**Lytham—**

Buckley, J. T. M.  
Dixon, J. G.  
Rothery, W. B. M.

<b>Maidstone—</b>		<b>Manchester (cont.)—</b>		<b>Manchester (cont.)—</b>	
Ellis, J.	A.M.	Hetherington, E. P.	M.	Stockton, C.	A.M.
		Higginbottom, L.	M.	Stone, S.	M.
<b>Maldon—</b>		Higson, J.	M.	Stromeyer, C. E.	M.
Clarke, A. L.	A.M.	Hiller, E. G.	M.	Stubbs, J. H.	M.
		Hiller, H.	M.	Sumner, W.	M.
<b>Malvern—</b>		Hobson, J. E.	M.	Taylor, T.	A.M.
Bremner-Davis, W. J.	A.M.	Hockley, N. J.	A.M.	Tetlow, E.	M.
		Hodgson, H.	M.	Thorneley, W.	M.
Butters, H.	G.	Homan, H.	M.	Turner, A.	M.
Mayo, W. H.	G.	Hopkinson, C.	M.	Urquhart, R. J.	A.M.
Powell, F.	G.	Hopkinson, E.	M.	Vaughan, W. H.	M.
<b>Manchester—</b>		Hudson, F. J.	M.	Wallwork, R.	M.
Ahrons, E. L.	M.	Hulse, R. L.	M.	Wells, G. J.	M.
Allen, M.	M.	Huxley, G.	M.	West, J.	M.
Allen, W. M.	M.	Ingham, W.	M.	Weyman, J. E.	M.
Allott, C. S.	M.	Ingleby, J.	M.	Whitehead, J. P.	A.M.
Ambrose, S. P.	A.M.	Irwin, D. H.	M.	Williams, Sir E. L.	M.
Ashbury, T.	M.	Jackson, R. H.	A.M.	Williams, V. I. N.	G.
Aspinall, J. A. F.	M.	Jones, T.	M.	Wilson, W. H.	M.
Baldwin, A. H.	M.	Jordan, H. G., Jun.	M.	Wollaston, T. R.	M.
Bale, J. H. F.	A.M.	Judd, J. H.	M.	Wood, W. A.	A.
Banks, G.	M.	Lewis, G.	M.	Wordingham, C. H.	M.
Barber, E. W.	A.M.	Lister, R. R.	M.	Worthington, S. B.	M.
Barningham, J.	M.	Longley, H. B.	A.M.	Worthington, W. B.	M.
Baron, F. E.	A.M.	Longridge, M.	M.	Wroe, J.	M.
Bear, M. M.	A.M.	Longridge, R. B.	M.	Yates, J.	M.
Bell, R. A.	G.	Massey, L. F.	A.M.	Yates, W.	M.
Benn, S.	M.	Massey, S.	M.		
Beswick, F. A.	M.	Mather, W.	M.	<b>Mansfield—</b>	
Bond, J. T.	A.M.	Mathewson, J. E.	M.	Prance, C. R.	A.M.
Bone, W. L.	M.	Matthews, R.	M.		
Boswell, S.	M.	Matthews, T.	M.	<b>Maybole—</b>	
Bressey, C. E.	G.	Meade, T. de C.	M.	Fox, S.	M.
Brooke, R. G.	M.	Mills, M. W.	G.		
Brooks, S. H.	M.	Mills, W.	M.	<b>Melksham—</b>	
Budenberg, C. F.	M.	Morris, J. A.	M.	Murray, T. R.	M.
Burcham, R. E.	M.	Muir, A.	M.		
Burnett, R. H.	M.	Nasmith, J.	M.	<b>Melton Constable—</b>	
Butterworth, J.	M.	Neilson, R. M.	A.M.	Marriott, W.	M.
Chapman, S.	A.M.	Nicholson, H.	M.		
Claremont, E. A.	M.	Nicholson, J. R.	M.	<b>Middlesbrough—</b>	
Clegg, J. H.	A.M.	O'Brien, J. O.	M.	Bell, C. L.	M.
Constantine, E. G.	M.	Parker, J.	A.M.	Bell, Sir L.	M.
Cooke, R. T.	M.	Parker, T.	M.	Chambers, T. H. W.	M.
Cooper, M.	M.	Parker, T., Jun.	M.	Cooper, A.	M.
Corner, J. F.	M.	Peacock, R.	M.	Downey, A. C.	M.
Coward, E.	M.	Pearce, S. L.	A.M.	Harrison, J. H.	M.
Craven, W.	M.	Pigott, A.	A.M.	Marshall, F. H.	M.
Craven, W. H. S.	M.	Pilling, H.	M.	Naylor, T. H.	M.
Crippin, T. H.	M.	Platt, J.	M.	Panton, W. H.	M.
Crosland, J. F. L.	M.	Price, J. B.	M.	Robinson, J.	M.
Crossley, W. J.	M.	Ramsbottom, J. G.	M.	Stead, J. E.	A.
Cummins, R. E.	A.M.	Rayner, H. S.	A.M.		
Cunliffe, R. W.	M.	Rendell, S.	M.	<b>Middlewich—</b>	
Davidson, J.	G.	Ride, S.	M.	Harlock, E. B.	M.
Davis, G.	M.	Robinson, J.	M.		
Day, C.	M.	Robinson, J. G.	M.	<b>Millom—</b>	
Dixon, S.	M.	Row, O. M.	M.	Barlow-Massicks, T.	M.
Ellis, W. F. W.	M.	Royce, F. H.	M.		
Ferranti, S. Z. de	M.	Roylance, A. H.	M.	<b>Milton, Northamptonshire—</b>	
Fowler, W. H.	M.	Savill, A. S.	M.	Alexander, E. D.	M.
Gallé, W. A.	A.M.	Saxon, A.	M.		
Galloway, C. J.	M.	Saxon, G.	M.	<b>Newark—</b>	
Gibbons, J. O. G.	A.M.	Saxon, J.	M.	Abbott, T.	M.
Goodbehere, A.	G.	Scarlett, J.	M.	Boreham, G. H.	G.
Goodbehere, E.	G.	Schroller, W.	M.	Bott, W. S.	G.
Green, J. S.	A.M.	Seaman, C. J.	M.	Josselyn, E.	M.
Hattersley, R. L.	M.	Sheffield, T. W.	A.M.	Ransome, A.	M.
Haywood, A. R.	A.M.	Smethurst, W.	M.	Yates, D. R. M.	G.
Heenan, H.	M.	Spencer, M.	M.		
Hepworth-Collins,		Spencer, P.	A.M.	<b>Newcastle-on-Tyne—</b>	
W.	A.M.	Spencer, W.	M.	Bedbrook, J. A. H.	A.M.
Herriot, W. S.	M.	Statham, H.	A.M.	Billetop, T. C.	M.
				Black, W.	M.
				Bulmer, J.	M.
				Casebourne, A. C.	A.M.
				Chater, J. R.	M.

<b>Newcastle-on-Tyne (cont.)</b>		<b>Nottingham—</b>		<b>Penryn—</b>	
Clatworthy, W. A.	A.M.	Alliott, J. B.	M.	Donald, D. B.	A.M.
Cochrane, W.	M.	Bond, G. C.	M.	Penzance—	
Coote, A.	M.	Carraack, C.	M.	Corin, P. B.	M.
Engelbach, C. R. F.	G.	Cave, H.	A.M.	Holman, F.	M.
Forster, A. L.	M.	Cleaver, A.	M.	Perranporth—	
Holmes, J. H.	M.	Cowcher, G.	G.	Dawe, J. N.	G.
Jackson, R. C.	M.	Cowen, E. S.	M.	Peterborough—	
Jameson, J.	M.	Cowen, G. R.	M.	Rouse, F.	M.
Lawrence, H.	M.	Crosta, L. W.	M.	Plumstead—	
Laws, W. G.	M.	Dowson, R. M.	A.M.	Butter, H. J.	M.
Mackessack, H.	G.	Fisher, P.	M.	Low, R.	M.
Marshall, F. C.	M.	Fowler, G.	M.	Pirie, G.	M.
Marshall, F. T.	G.	Goodall, F. H.	G.	Topple, C. J.	M.
Mountain, W. C.	M.	Hind, E.	A.	<b>Plymouth—</b>	
Philipson, J.	G.	Hirst, G. F.	A.M.	Back, A. C. L.	M.
Philipson, W.	G.	Hodgson, W. J.	G.	Furness, C.	A.M.
Proctor, C. F.	M.	Hughes, G. D.	M.	Morgan, D. J.	G.
Ridley, J. O.	M.	Hunt, W.	M.	Neal, R. H. B.	A.M.
Ridley, J. C., Jun.	A.M.	Kay, G.	M.	Rider, J. H.	M.
Rolf, G.	A.M.	King, A.	A.M.	Robinson, C. A.	M.
Scott, E.	G.	King, J. J.	M.	Russell, W. R.	A.M.
Scott, W.	A.	Meggitt, G. T.	A.M.	<b>Pontefract—</b>	
Smith, W.	M.	Miller, J. S.	M.	Nicholls, P.	A.M.
Spencer, J. W.	M.	Mills, G. P.	M.	<b>Poole—</b>	
Spencer, T.	M.	Page, H.	A.M.	Scanlan, H. E.	A.M.
Swinburne, M. W.	M.	Paton, J. M. C.	M.	<b>Portland—</b>	
Taverner, H. L.	A.M.	Philippis, J.	A.M.	Elford, E. J.	M.
Trail, J.	M.	Pillatt, A.	A.M.	<b>Portsmouth—</b>	
Turner, G. R.	A.M.	Potter, W. H.	M.	Anderson, A. L.	A.M.
Tweedy, J.	M.	Reader, R.	M.	Kimber, H. W.	G.
Wallace, J.	M.	Robinson, Prof. W.	M.	<b>Preston—</b>	
Watson, H. B.	M.	Sanderson, H. W.	G.	Bowman, H.	M.
Watson, T. J.	M.	Sheldon, H. C.	M.	Boyd, C. A.	M.
Westmacott, H. A.	M.	Smith, H. W.	A.M.	Dryden, T.	M.
Westmacott, P. G. B.	M.	Smith, I.	M.	Dryden, W., Jun.	G.
Young, J.	M.	Smith, J. B.	M.	Fowler, A. F.	M.
Younger, R.	M.	Smith, R. V.	G.	Iddon, J.	M.
<b>Newhaven—</b>		Taylor, J.	M.	McDonald, W.	G.
Fisher, H. B.	M.	Turner, T. N.	M.	Norris, W.	M.
<b>Newport, Essex—</b>		Turney, Sir J.	M.	<b>Reading—</b>	
Macallan, G.	M.	Wardle, F. H.	G.	Brown, G. W.	M.
<b>Newport, Salop—</b>		Westmoreland,		Meaden, N.	M.
Cattell, W.	A.M.	J. W. H.	M.	Routh, W. P.	M.
<b>New Shildon—</b>				Stephenson, G. R.	M.
Copperthwaite, R. A.	M.			Sutton, H. R.	A.M.
<b>Newton Abbot—</b>		<b>Old Charlton—</b>		<b>Redditch—</b>	
Giles, B.	M.	Kershaw, T. E.	M.	Smith, R. W.	M.
<b>Normanton—</b>				<b>Retford—</b>	
Warren, R. A.	G.			Jenkins, W. J.	M.
<b>Northampton—</b>		<b>Oldham—</b>		Slingsby, W.	A.M.
Grose, A.	M.	Ainley, H.	M.	Tenney, D.	A.M.
Smith, W. A.	A.M.	Charlesworth, S.	M.	<b>Rickmansworth—</b>	
<b>Northfleet—</b>		Dodd, J.	M.	Waterlow, D. S.	A.
Taylor, C. P.	A.M.	Dronsfield, J.	M.	<b>Ripon—</b>	
<b>Northwich—</b>		Dronsfield, J. S.	M.	Anderson, E. E. J.	M.
Howitt, J. J.	M.	Dronsfield, W.	M.	<b>Rochdale—</b>	
Humphrey, H. A.	M.	Haigh, N. N.	M.	Backhouse, J.	A.M.
Yarwood, W. J.	M.	Hall, H. P.	M.	Fielden, J. P.	M.
<b>Norwich—</b>		Howarth, W.	M.	Johnson, S.	M.
Howard, H. J.	G.	Platt, S. R.	M.	Kershaw, G.	A.M.
Marshall, L. P.	A.M.	Taylor, R., Jun.	M.	Lieber, H. A.	M.
Phillips, W. P. F.	G.	Whittaker, J.	M.	Ogden, C. C.	A.M.
Pillow, E.	M.	<b>Ossett—</b>		Porritt, L. A.	M.
Stonebridge, A. W.	G.	Smith, G. R.	A.	Robinson, A. M.	M.
				Robinson, C. J.	M.
				Robinson, T. N.	M.
		<b>Oswestry—</b>		Wilkinson, F.	G.
		Dow, J. W.	M.		
		Hawkins, E. S.	G.		
		Jones, H. E.	M.		
		<b>Penrith—</b>			
		Dowson, E. C. H.	A.M.		

<b>Rochester—</b>		<b>Sandgate—</b>		<b>Sheffield (cont.)—</b>	
Aveling, T. L.	M.	Moraes, J. A.	G.	Vickers, T. E.	M.
Liversedge, H. T.	M.	Scarborough—		Walker, C. C.	A.M.
Marks, G. C.	A.M.	Brodgen, T.	M.	Whale, R. A.	A.M.
Neate, P. J.	M.	Gibb, M. S.	G.	Wild, A. G.	A.M.
<b>Rochford—</b>		<b>Sevenoaks—</b>		Wilson, Sir A.	M.
Hollick, A. S.	A.M.	Hammond, W. J.	M.	Wilson, A. C.	G.
<b>Ross—</b>		Humphrey, F. G.	G.	Winder, C. A.	M.
Price, C. G.	A.M.	<b>Sheerness—</b>		Yardley, W. H.	A.M.
<b>Rotherham—</b>		Lawrie, J.	M.	Young, S. J.	M.
Alcock, A. E.	A.M.	<b>Sheffield—</b>		<b>Shipley—</b>	
Baker, H. G.	A.M.	Addy, G.	M.	Parkinson, E.	A.M.
Buttenshaw, G. E.	A.M.	Allcard, H.	M.	Parkinson, J.	M.
Chrimes, C. E.	A.	Allen, W. E.	A.	Stephenson, A.	A.M.
Dick, F. W.	M.	Anderson, T. S.	M.	<b>Shoreham—</b>	
Dyson, R.	M.	Askham, J. U.	M.	Stow, G.	G.
Green, T.	M.	Askham, P. U.	M.	<b>Shrewsbury—</b>	
Jenkins, E. J.	G.	Bainbridge, E.	M.	Johnston, C. M.	A.M.
Wilson, J. C.	A.M.	Bashforth, A.	M.	<b>Southall—</b>	
<b>Rugby—</b>		Bennison, W. C.	A.	Asplen, B.	M.
Robinson, M. H.	M.	Bland, F.	M.	Sanders, H. C.	M.
Sankey, Captain H. R.	M.	Boulden, F.	A.M.	<b>Southampton—</b>	
<b>Runcorn—</b>		Capron, A. J.	M.	Bosley, W. J.	A.M.
Allen, P. R.	M.	Cleland, W.	M.	Day, G. C.	M.
Cullen, W. H.	M.	Cook, G. N.	G.	Mayes, H.	G.
<b>St. Albans—</b>		Cooper, H.	M.	Tebbutt, S.	M.
Cooper, T.	A.M.	Craven, J. A.	M.	Wallau, F. P.	M.
Peake, R. C.	A.	Croslan, J.	M.	<b>South Bank—</b>	
<b>St. Helens, Lancs.—</b>		Davidson, A.	M.	Evans, D.	M.
Brearley, B. J.	M.	Davy, D.	M.	<b>Southend-on-Sea—</b>	
Brearley, F. T.	M.	Davy, D., Jun.	A.M.	Hutchison, P.	G.
Cook, J. J.	M.	Dewhurst, J. H.	M.	<b>South Godstone—</b>	
Daglish, H. B.	M.	Fawcett, P. W.	A.M.	Tartt, W.	M.
Hollingsworth, E. M.	A.M.	Firth, A.	M.	<b>Southport—</b>	
Jenkinson, T.	M.	Fletcher, J. E.	A.M.	Hilton, F.	M.
Lackland, J. J.	M.	Forster, R.	G.	Scotter, R. H.	M.
Smith, W.	M.	Foster, G.	A.	<b>Southsea—</b>	
Swallow, J.	A.M.	Fryer, T. J.	G.	Bramsdon, W. H.	M.
West, L.	M.	Gibbins, J. E.	A.M.	<b>South Shields—</b>	
<b>St. Ives—</b>		Hadfield, R. A.	M.	Readhead, R.	M.
Trueman, T. B.	M.	Halcomb, S. B.	M.	<b>Sowerby Bridge—</b>	
<b>St. Just—</b>		Hawksley, G. W.	M.	Milligan, W. S.	M.
Williams, N. T.	M.	Hill, A. P.	A.M.	Pollit, E. E.	M.
<b>St. Margarets-on-Thames—</b>		Hodges, P.	M.	<b>Spennymoor—</b>	
Pashby, A. H.	G.	Hollingsworth, A. A.	A.M.	Hedley, R.	M.
<b>Salford—</b>		Howell, J. B.	M.	Hedley, W. S.	G.
Adams, E.	M.	Howell, S. E.	M.	<b>Stafford—</b>	
Bailey, Sir W. H.	M.	Hoyle, J. R.	M.	Baguley, E. E.	M.
Bates, H.	M.	Jackman, J.	A.	James, H. H.	M.
Coventry, T.	A.M.	Johns, C.	A.M.	<b>Stamford—</b>	
Donovan, E. W.	M.	Lash, H. W.	A.M.	Blackstone, E. C.	M.
Gresham, H. E.	M.	Laycock, W. S.	M.	<b>Stanmore—</b>	
Gresham, J.	M.	Mappin, F.	G.	Gordon, L.	G.
Hodgson, W.	M.	Mappin, Sir F. T.	M.	<b>Stockport—</b>	
Kiernan, G.	M.	Matthews, T. B.	A.	Atkinson, J.	M.
Larmuth, J. H.	A.M.	Meggitt, S. N.	A.	Bellamy, A. R.	M.
Larmuth, W. O.	A.M.	Miller, W. T. W.	G.	Catmur, T. S.	A.M.
McKerlie, J.	A.M.	Nash, T.	M.	Chorley, R.	A.M.
Morris, J.	M.	Newton, S. B.	M.	Firth, J.	A.M.
Oliver, T.	M.	Ockendon, W.	M.	Harlow, B. S.	A.M.
Shaw, J.	M.	Osborn, W. F.	G.	Horsfield, R.	M.
Smith, R. A.	M.	Platts, W.	A.M.	Scott, F. W.	M.
Trafford, A.	A.M.	Radcliffe, W.	M.	Taylor, E., Jun.	A.M.
Widdowson, J. H.	M.	Radford, R. H.	M.	Taylor, J.	M.
Widdowson, J. H., Jun.	M.	Ripper, Prof. W.	M.	Wimpenny, A. B.	A.
Woods, W. H.	M.	Rixson, F.	M.		
		Robinson, S. J.	M.		
		Sandeman, E.	M.		
		Snow, J.	A.M.		
		Thompson, H.	A.M.		
		Tozer, E. S.	A.		
		Vickers, A.	M.		

<b>Stockton-on-Tees—</b>		<b>Thirsk—</b>		<b>Wednesbury (cont.)—</b>
Anderson, W.	M.	Bamlett, A. C.	M.	Williams, R.
Clark, H.	M.			Wild, W.
Mate, W. E.	A.M.			M.A.M.
Warner, A. W.	A.	<b>Tipton—</b>		
Wrightson, Sir T.	M.	Chamberlain, J. G.	A.	
<b>Stoke-on-Trent—</b>		Chambers, E. J.	M.	
Freeman, W. W.	A.M.	Howe, E.	M.	
Longbottom, L.	M.	Player, R.	A.M.	
<b>Stony Stratford—</b>				
Hayes, E.	M.	<b>Torquay—</b>		
<b>Stourbridge—</b>		Cotton, G. B.	G.	
Attwood, J.	M.	Goodman, F. A.	G.	
Cleverly, W. B.	G.	Houghton, J. C. A.	M.	
Jones, W.	M.	Ingham, W.	M.	
Marten, E. B.	M.	<b>Tunbridge Wells—</b>		
<b>Stourport—</b>		Salomons, Sir D. L.	A.	
Baldwin, A.	M.			
<b>Stroud, Glos.—</b>		<b>Uxbridge—</b>		
Alder, G. F.	A.M.	Salis, H. R. de	A.M.	
Humpidge, J. D.	M.			
Sargeant, E. F.	M.	<b>Vowchurch—</b>		
Smith, T. G.	M.	Wood, W. H.	A.M.	
<b>Sunderland—</b>		<b>Wadhurst—</b>		
Armstrong, W. I.	M.	Roberts, F. E. L.	G.	
Buckwell, G. W.	M.			
Clark, G.	M.	<b>Wakefield—</b>		
Clark, G., Jun.	M.	Balkwill, A. J.	M.	
Dickinson, J. C.	M.	Childe, H. S.	M.	
Dickinson, J.	M.	Close, H. A.	G.	
Doxford, R. P.	M.	Green, Sir E.	M.	
Laing, A.	M.	Turner, V.	G.	
Mills, W.	M.	Vernon, W. H.	A.M.	
Rickaby, A. A.	M.	<b>Wallingford—</b>		
Snell, J. F. C.	M.	Duvall, C. A.	M.	
Thompson, R. C.	M.			
Wake, H. H.	M.	<b>Walmer—</b>		
Warren, W.	M.	Lapage, R. H.	M.	
<b>Surbiton—</b>		<b>Walsall—</b>		
Wrinch, H. E. H.	A.M.	Bullock, J. H.	M.	
<b>Sutton, Surrey—</b>		Forbes, P. A.	M.	
Forward, E. A.	G.	Lunt, C. T.	M.	
Moore, G. E.	A.M.	Micklewright, W.	M.	
Robins, G. M.	M.			
Young, W.	A.M.	<b>Walton-on-Thames—</b>		
<b>Swanscombe—</b>		Faulkner, V.	G.	
Cheffins, H. W. J.	A.M.	Hill, J. K.	M.	
<b>Swindon—</b>		Jenkin, C. J.	A.M.	
Churchward, G. J.	M.			
Dean, W.	M.	<b>Wantage—</b>		
Hogarth, T. O.	M.	Newman, K. C. H.	G.	
Kersey, A. T. J.	A.M.			
King, H. C.	M.	<b>Warrington—</b>		
Shepherd, J. H.	G.	Atherton, T.	M.	
Thomas, L. R.	M.	Bleckly, J. J.	M.	
Waister, W. H.	M.	Deas, J.	M.	
Williams, W. H.	M.	Dixon, R.	M.	
Wright, F. G.	M.	Hogg, W.	G.	
<b>Tamworth—</b>		Massey, E.	A.M.	
Willis, E. T.	A.M.			
<b>Teddington—</b>		<b>Watford—</b>		
Anderson, H. W.	M.	Blackburn, J.	M.	
Oldham, H. G. V.	A.M.	Rogers, H. J.	M.	
Wort, W. E.	A.M.	Smith, G. A.	G.	
<b>Thetford—</b>		Wales, G. H.	M.	
Burrell, C., Jun.	M.			
Millington, F. H.	M.	<b>Wednesbury—</b>		
Wilson, W. C.	M.	Hawkesworth, F. S.	A.M.	
		Horton, E.	M.	
		Jaecks, T. W. M.	M.	
		James, E.	M.	
		Marshall, T.	A.M.	
		Oates, A. J.	A.M.	
		Smallman, H. S.	M.	
		Spencer, J.	M.	
		Spencer, T. H.	M.	
		Thomas, H. R.	A.M.	

<b>Wolverton—</b>		<b>Woolwich (cont.)—</b>		<b>Workington (cont.)—</b>	
Park, C. A.	M.	Donaldson, H. F.	M.	Milburn, J.	M.
<b>Wooburn—</b>		Dumas, R.	A.M.	Price, J.	M.
Harris, W. R. A.	A.M.	Ledingham, J. M.	M.	Williamson, R.	M.
<b>Woodford—</b>		Ryan, Dr.	M.		
Clarke, L. T.	A.M.	Smith, L. L.	A.M.	<b>Worksop—</b>	
		Travis, H.	M.	King, C. P.	M.
<b>Woolwich—</b>		Turton, W. H.	M.		
Banister, G. H.	M.	<b>Worcester—</b>		<b>Yeovil—</b>	
Bate, Lt.-Col. C. M.	M.	Deacon, R. W.	M.	Petter, P. W.	A.M.
Brown, W.	M.	Urwick, A. J.	M.		
Carnegie, D.	M.	<b>Workington—</b>		<b>York—</b>	
Dean, F. W. C.	M.	Kirk, II.	M.	Close, J.	M.
				Humphreys, W. H.	A.M.
				Nelson, J.	M.

## IRELAND.

<b>Athy—</b>		<b>Carrickfergus—</b>		<b>Dublin (cont.)—</b>	
Byrne, J. J.	M.	Pirrie, J. B.	A.M.	Spence, W.	M.
<b>Ballsbridge—</b>		<b>Castletown Berehaven—</b>		Wakefield, W.	M.
Wilson, W. W.	M.	Waldron, P. L.	M.	Waring, H.	G.
<b>Ballymoney—</b>		<b>Coolaney—</b>		Warren, F. F.	M.
Bradshaw, G. T. M.	M.	Smyth, R. H.	G.	Wigham, J. R.	M.
<b>Belfast—</b>		<b>Cork—</b>		<b>Dundalk—</b>	
Chambers, R. M.	M.	Merrick, R.	M.	Bigger, C.	A.M.
Combe, A.	M.	Price, J.	M.	Clifford, C.	M.
Davidson, J. S.	G.	Robinson, J. D.	M.	Logan, R. P. T.	M.
Davidson, S. C.	M.	Smith, W. M.	M.	Manisty, E.	M.
Elliott, A. G.	G.	<b>Doagh—</b>		<b>Haulbowline—</b>	
Elliott, G.	M.	McMeekin, A.	A.M.	Brown, Capt. F. A. W. M.	
Ferguson, W. D.	M.	<b>Donabate—</b>		<b>Larne Harbour—</b>	
Fforde, W. J.	A.M.	Pcockter, F. M.	A.M.	Sutherland, J.	A.M.
FitzGerald, Prof. M. F.	M.	<b>Dublin—</b>		<b>Limerick—</b>	
Grant, W.	A.M.	Bevis, A. W.	M.	Gadd, W.	M.
Horner, J.	M.	Blissett, P. T.	A.M.	Lee, R. J.	M.
MacColl, H.	M.	Challenger, G. R.	A.M.	Lee, S. E.	M.
Malcolm, B.	M.	Coey, R.	M.	<b>Londonderry—</b>	
McCowen, V. A. H.	M.	Cronin, R.	M.	Craig, A.	M.
Moore, T. L.	A.M.	Douglass, W.	M.	<b>Moate—</b>	
Pirrie, The Right Hon. W. J.	M.	Fleischer, P.	A.M.	Goodbody, R.	M.
Pratten, W. J.	M.	Geoghegan, S.	M.	<b>Monkstown—</b>	
Reynolds, W. F.	M.	Holiday, J.	M.	Walpole, T.	M.
Ward, F. A.	A.M.	Hope, J. B.	M.	<b>Mullingar—</b>	
Wilson, A. B.	M.	Jameson, G.	M.	Martyn, S. W.	A.M.
Wilson, W. H.	M.	Kennan, W. T.	A.	<b>Neath—</b>	
Wolff, G. W.	M.	MacGarvey, H.	M.	Powell, T.	M.
<b>Bessbrook—</b>		Maunsell, R. E. L.	M.	<b>Raheny—</b>	
Barcroft, H.	A.	Pigot, T. F.	M.	Cairnes, F. E.	M.
Dobson, A.	M.	Ross, W.	M.		
Hardy, W.	A.M.	Spence, A. W.	M.		

## SCOTLAND.

<b>Aberdeen—</b>		<b>Bridge-of-Allan—</b>		<b>Dumbarton (cont.)—</b>	
Dalgarro, J. R.	M.	Pullar, F. P.	G.	Brown, J. P.	A.M.
Jackson, W.	M.	<b>Coatbridge—</b>		Paul, M., Jun.	M.
Nicol, R. G.	M.	Cowie, W.	A.M.	<b>Dundee—</b>	
Smith, J. S., Jun.	A.M.	Finlayson, F.	M.	Berry, T.	A.M.
Thomson, J. W.	A.M.	McGregor, J.	A.M.	Lindsay, W. R.	M.
<b>Airdrie—</b>		<b>Coldstream—</b>		MacDonald, D. J.	M.
Barman, H. D. D.	M.	Roberts, B. O.	A.M.	Thain, W. A.	A.M.
Rew, J. H.	M.	<b>Dumbarton—</b>		Thomson, A. M.	G.
<b>Arbroath—</b>		Brock, W.	M.	<b>Dunoon—</b>	
Fraser, P.	M.			Miller, A.	M.

<b>Edinburgh—</b>		<b>Glasgow (cont.)—</b>		<b>Greenock—</b>	
Allan, F. W.	G.	Foulis, W.	M.	Graham, W.	A.M.
Bertram, D. N.	M.	Gaze, E. H. J.	M.	MacLean, A. S.	M.
Beves, N. E.	A.M.	Gibson, G. H.	A.M.	McLarty, F. M.	M.
Blyth, E. B.	G.	Grant, H.	A.M.		
Brown, A. B.	M.	Grant, T. M.	M.		
Burn, R. S.	M.	Guthrie, A.	A.M.		
Clark, T. A.	M.	Hall-Brown, E.	M.		
Colam, W. N.	M.	Harvey, R.	M.		
Cooper, W.	M.	Holmström, C. A.	M.		
Dadge, N.	A.	Jackson, H. D.	A.M.		
Drake, A. J.	A.M.	Johnson, A.	M.		
Drew, A.	M.	Knight, C. A.	M.		
Irvine, A. J.	A.M.	Leitch, A.	A.M.		
Lumsden, T. T. M.	M.	Lemkes, C. R. L.	A.		
McFarlane, J.	M.	Longbottom, J. G.	A.M.		
Purves, W. T.	A.M.	MacBrayne, L.	A.		
Stevenson, D. A.	M.	MacDonald, J.	M.		
Wilson, J. C.	M.	MacLay, Prof. A.	M.		
<b>Errol—</b>		MacLellan, J. A.	M.		
Morton, D. A.	A.M.	Maitland, C.	M.		
<b>Forfar—</b>		McFarlane, G.	M.		
Ewen, J. T.	M.	McIntyre, J. H. A.	M.		
<b>Gartsherrie—</b>		McKinnel, W.	A.		
Strathern, A. G.	A.M.	McNeil, J.	M.		
<b>Glasgow—</b>		Morton, D. H.	M.		
Aitken, H. W.	M.	Muirhead, D.	A.M.		
Aitken, T. M.	A.M.	Munro, R. D.	M.		
Alley, S. E.	M.	Munyard, A.	A.M.		
Arnot, W.	M.	Murray, D. J.	G.		
Arrol, Sir W.	M.	Philip, W. L.	M.		
Bain, W. N.	M.	Pickering, J.	M.		
Barr, Prof. A.	M.	Reid, A. T.	M.		
Barrow, J.	M.	Reid, H.	M.		
Baxter, P. M.	M.	Reid, J.	M.		
Beardmore, W.	M.	Robinson, J.	M.		
Biles, Prof. J. H.	M.	Robinson, J. F.	M.		
Boyd, J. T.	M.	Ross, W. Jun.	M.		
Boyd, J. W.	M.	Rowan, J.	M.		
Clark, J. L.	A.M.	Shanks, W.	M.		
Clarkson, J.	M.	Sharp, J. H.	M.		
Cochrane, J.	M.	Smith, A. D.	M.		
Cooper, T. L. R.	A.	Spence, W. L.	M.		
Couper, S.	M.	Stewart, A.	M.		
Davies, C. M.	M.	Stewart, D.	M.		
Davison, R.	M.	Thomson, J.	M.		
Dixon, W.	M.	Thomson, J. M.	M.		
Drummond, W.	M.	Turnbull, A.	M.		
Dübe, C. R.	M.	Turnbull, J., Jun.	M.		
Evetts, W., Jun.	A.M.	Turner, W.	A.M.		
Foster, J.	M.	Urie, W. M.	M.		
		Vaughan, J. C.	G.		
		Watkinson, Prof. W. H.	M.		
		Wilson, W. H.	M.		
		Young, J. D.	A.		
		Young, T.	M.		
<b>Perth—</b>					
Pullar, A. E.					
<b>Renfrew—</b>					
Briggs, J. H.					
Brown, W.					
Lobnitz, F.					
McLaren, R. A.					
Young, W. A.					
<b>Stewarton—</b>					
Love, R. T.					
<b>Troon—</b>					
Guthrie, W. J.					
<b>Wishaw—</b>					
Steele, J.					

**WALES.**

<b>Aberdare—</b>		<b>Cardiff (cont.)—</b>		<b>Cardiff (cont.)—</b>	
Lewis, Sir W. T.	M.	Cameron, J.	M.	Ingate, G. J. A.	G.
Treharne, G. A.	M.	Cryer, A.	A.	James, W. H.	A.M.
<b>Blaenavon—</b>		Dawson, E.	M.	Jordan, E.	M.
Dayson, W. O.	M.	Dobbs, H. T.	A.M.	Knottesford - Fortescue, J. N.	A.M.
<b>Burry Port—</b>		Edwards, H. F.	M.	Lewis, W. T., Jun.	G.
Carr, R. A.	M.	Elliott, Dr. A. C.	M.	Lowdon, T.	M.
<b>Caerleon—</b>		Fisher, H. O.	M.	Marquand, A. J.	M.
Richards, E. W.	M.	Hallett, J. H.	M.	Morgan, D. J.	M.
<b>Cardiff—</b>		Hosgood, J. H.	M.	Patterson, A.	M.
Andrews, T.	M.	Hosgood, O. S.	M.	Pattison, J.	M.
Cambridge, H.	M.	Hunter, C. L.	M.	Riches, T. H.	M.
		Hunter, G. L.	M.		

<b>Cardiff (cont.)—</b>		<b>Newport, Mon.—</b>		<b>Port Talbot (cont.)—</b>	
Schontheil, T.	G.	Forsyth, R. A.	M.	Murdoch, R. M.	M.
Sibbering, G. T.	M.	Laurie, L. G.	M.	Pearson, C. D.	G.
Strachan, J.	M.	Phillips, C. D.	M.		
Woodhead, W. R.	M.	Rafael, F. W.	M.		
<b>Carnarvon—</b>		Smyth, W. S.	M.	<b>Rhayader—</b>	
Hayes, J.	M.	Stevens, A. J.	M.	Suffield, C. A.	A.M.
<b>Dowlais—</b>		Wyman, R.	A.M.	<b>Ruabon—</b>	
Martin, E. P.	M.	<b>Newport Pagnel—</b>		Coombs, J. A.	A.M.
<b>Llanberis—</b>		Moncrieff, R. W.	A.M.	<b>Swansea—</b>	
Pritchard, H.	M.	<b>Penarth—</b>		Hosgood, T. W.	G.
<b>Llandudno—</b>		Monroe, R.	M.	Jones, T. G.	A.M.
Joyce, T. W.	A.M.	<b>Pontypridd—</b>		Peel, C. E.	M.
<b>Llanelly—</b>		Gregory, H. M.	M.	Player, J.	M.
Waddle, H. W.	M.	<b>Portmadoc—</b>		Ruthen, C. T.	A.M.
<b>Mold—</b>		Isaac, R.	M.	Unsworth, H. G.	M.
Buddicom, H. W.	M.	<b>Port Talbot—</b>		Wright, J. R.	M.
		Cleaver, W.	A.M.	<b>Talgarth—</b>	
		Hosgood, W. J.	M.	Ashworth, H.	M.
				<b>Tondū—</b>	
				Harvey, J. B.	M.

## CHANNEL ISLANDS.

<b>St. Sampson's, Guernsey—</b>		<b>St. Heller's, Jersey—</b>	
Hicks, F. G.	A.M.	Aubin, P. A.	G.

## NAVAL ENGINEERS.

Andrew, G. E.	M.	Hill, W. S.	M.	Stocker, P.	M.
Bennington, J. W.	M.	Hurst, I. E.	M.	Thomsett, F. D.	M.
Cornish, E.	M.	Little, E.	M.	Thumwood, L. E.	M.
Davis, R.	M.	Lonnon, W.	M.	Veen, V. A. A. ter	M.
Gibson-Sugars, J. S.	M.	Markham, R. G. L.	M.	Venning, A. J.	A.M.
Hall, W. B.	M.	Paterson, J. A.	M.	Venning, T. A.	A.M.

## FOREIGN COUNTRIES.

### AFRICA.

<b>BRIT. CEN. AFRICA—</b>		<b>Cape Town (cont.)—</b>		<b>Cape Town (cont.)—</b>	
<b>Blantyre—</b>		Beatty, H. M.	M.	Spencer, F. H.	A.
Maclagan, R.	M.	Briggs, H.	A.M.	Stokes, F. T.	G.
<b>BRIT. EAST AFRICA—</b>		Denham, J.	M.	Wilson, J. M. G.	A.
<b>Mombasa—</b>		Edwards, W. C.	M.		
Bremner, B. L.	G.	Frerichs, J. A.	A.M.	<b>East London—</b>	
Sandiford, C.	M.	Furnivall, W. H. G.	A.M.	Burden, A. G.	A.M.
<b>CAPE COLONY—</b>		Gibbs, J. H.	M.	Davies, J. H.	M.
<b>Cape Town—</b>		Johnson, H. H.	G.		
Albrecht, J. A.	A.M.	Logan, J. W.	M.	<b>Kimberley—</b>	
Banham, C. P.	M.	Meintjes, L. S.	A.	Goffe, E.	A.M.
		Pickering, F.	A.M.	Quenatall, T.	M.
		Pollard, Lieut. F. J.	A.M.	Reunert, T.	M.
		Smith, S.	A.M.	Vines, C. G.	A.M.

<b>Port Alfred—</b>		<b>NATAL—</b>		<b>Umtali—</b>	
Bradley, A. A.	G.	Durban—		Warren, W.	M.
<b>Port Elizabeth—</b>		Enock, D.	A.M.	Groves, M.	A.M.
Farrar, S. H.	M.	Hosken, R.	M.	Bower, H. A. R.	G.
Hambly, J.	M.	Milne, W.	M.		
Miller, H. W.	M.	Scott, J.	M.		
<b>Queenstown—</b>		Scott, T.	A.M.		
Almond, M.	A.M.	Stobie, G.	M.		
<b>Ultenhage—</b>		Titren, G. E. de K.	G.		
Duncan, W.	A.M.				
Malloch, W. F.	M.	<b>Maritzburg—</b>			
		Heydemann, H. G. J.	G.		
<b>EGYPT—</b>		<b>Port Natal—</b>			
		Thomson, G.	M.		
<b>Alexandria—</b>		<b>ORANGE RIVER COL.—</b>			
Alderson, C. A. H.	A.M.				
Alderson, G. A.	A.M.	<b>Bloemfontein—</b>			
Alderson, G. B.	M.	Carolin, E. M.	A.M.		
Allen, F.	M.				
Elsworth, J. F.	M.	<b>Kroonstad—</b>			
Sheppard, H. G.	M.	Scott, R.	A.M.		
<b>Cairo—</b>					
Bain, G.	M.	<b>RHODESIA—</b>		<b>WEST COAST—</b>	
Ball, J.	A.M.			<b>Freetown—</b>	
Calvi, A. U.	G.	<b>Bulawayo—</b>		Stone, F. H.	M.
Gandon, P. G.	G.	Fletcher, H. C.	A.M.		
Western, H.	G.	Griffiths, H. D.	M.		
Wilson, D. E.	A.M.	Johnson, G.	A.M.	<b>Lagos—</b>	
Wilson, J.	M.	Warton, R. G. F.	A.M.	Burgess, F. C. B.	M.
<b>Damanhour—</b>		<b>Salisbury—</b>		Pott, G. T.	A.M.
Peacock, F.	M.	Roberts, C. T.	A.M.	<b>Obuassi—</b>	
Peacock, J. A. W.	M.	Roberts, P. R.	A.M.	Smith, R. B.	G.
				<b>ZULULAND—</b>	
				<b>Eshowe—</b>	
				Ward, J. P.	A.M.

**AMERICA (CENTRAL).**

<b>GUATEMALA—</b>		<b>Orizaba—</b>		<b>Cuba—</b>	
Akers, C. H.	M.	Heinke, E. H. A.	M.	Keyworth, T. E.	M.
<b>MEXICO—</b>		<b>Puebla—</b>		Wolfe, J. E.	M.
<b>Chihuahua—</b>		Greaven, L.	M.		
Stephenson, J. G. L.	M.			<b>PORTO RICO—</b>	
<b>Mexico City—</b>		<b>WEST INDIES—</b>		Graham, R.	M.
Carter, H. F.	M.	<b>Barbados—</b>			
Lea, W. A.	M.	Brocklehurst, G.	M.	<b>Trinidad—</b>	
Williams, A.	A.M.	Simpson, D. G.	A.M.	Peet, J.	M.
		Simpson, N. de L.	G.	Wallace, J.	M.

**AMERICA (NORTH).**

<b>BRIT. N. AMERICA—</b>		<b>Montreal (cont.)—</b>		<b>UNITED STATES—</b>	
<b>British Columbia—</b>		Coker, E. G.	M.	<b>Baltimore—</b>	
Barrow, A. R. M.	G.	Redpath, F. R.	M.	McAll, H. W.	A.M.
Croft, H.	M.	Wallis, H.	M.		
Crofts, J. O. T.	M.			<b>Boston—</b>	
Johnson, L. R.	M.	<b>Nova Scotia—</b>		Jaques, Capt. W. H.	M.
<b>Montreal—</b>		Taylor, C. G.	M.	<b>Bridgeport—</b>	
Brown, F. R. F.	M.	<b>Ontario—</b>		House, H. A.	M.
		Barnett, J. D.	M.		

<b>Cambridgeport—</b>		<b>New York—</b>		<b>San Diego—</b>
Leavitt, E. D., Jun.	M.	Bulkley, H. W.	M.	Cobboud, A. W.
<b>Charlestown—</b>		Cox, E. H.	A.M.	A.M.
Hall, A. F.	M.	Foster, E. H.	M.	
<b>Chicago—</b>		Hart, F.	M.	
Hunt, R. W.	M.	Henning, G. C.	M.	
<b>Cleveland—</b>		Herschmann, A. J.	A.M.	
Swasey, A.	M.	O'Connor, J. F.	G.	
Wellman, S. T.	M.	Worthington, C. C.	M.	
<b>Jacksonville—</b>		<b>Norfolk—</b>		<b>Taunton—</b>
Angas, W. M.	M.	Roberts, T. H.	M.	Greensmith, J. E.
<b>Libby—</b>		<b>Philadelphia—</b>		Meats, J. T.
West, H. E.	A.M.	Given, E. C.	A.M.	
<b>Los Angeles—</b>		Sellers, Dr. C.	M.	
Chaffey, G.	M.	Sellers, W.	M.	
<b>Matteawan—</b>		<b>Providence—</b>		<b>Washington—</b>
Blackburn, A. H.	M.	Mather, W. P.	M.	Jackling, D. C.
<b>Middlesbrough—</b>		<b>Salt Lake City—</b>		<b>Worcester—</b>
Bartlett, J. H.	M.	Hayward, R. F.	G.	Morgan, C. H.
				Wheelock, J.
				<b>HAWAII—</b>
				Williams, J. N. S.
				M.

### AMERICA (SOUTH).

<b>ARGENTINE REP.—</b>		<b>Minas—</b>		<b>CHILE—</b>
<b>Bahia Blanca—</b>		Scott, H. K.	A.M.	<b>Iquique—</b>
Lucy, W. T.	M.	<b>Minas Geraes—</b>		Gilling, A. H.
<b>Buenos Aires—</b>		Barbosa, A.	G.	Nicholls, J. M.
Abella, J.	A.M.	Parker, F. T.	G.	A.M.
Arteaga, A. de	M.	<b>Pernambuco—</b>		
Bailey, W. D.	M.	Cardozo, F. C. de M.	M.	
Calastremé, J. C.	M.	Clark, A.	M.	
Fitz-Gerald, J. F. G.	A.M.	Scott, W. H.	M.	
Garrett, E.	A.M.	<b>Rio de Janeiro—</b>		
Grant, P.	M.	Bocquet, H. C.	M.	
Greaven, A. A.	M.	Deacon, R. D.	G.	
Hicken, T.	M.	Mattoos, A. G. de	G.	
Morton, J. H.	A.M.	Whichellos, R.	G.	
Richardson, J. S.	M.	<b>Rio Grande do Norte—</b>		<b>DUTCH GUIANA—</b>
Scholes, W. H.	M.	Frripp, S., Jun.	A.M.	<b>Nickerie—</b>
Smith, J. W.	M.	Hubback, C. A.	M.	Thomson, D. L.
Wood, T. R.	M.	<b>Rio Grande do Sol—</b>		A.M.
York, F. C.	M.	Bowen, E.	M.	<b>PERU—</b>
<b>Mendoza—</b>		Gray, A. C.	A.M.	<b>Lima—</b>
Hopwood, J.	M.	Stronge, C.	M.	Sangster, W. S.
<b>Rosario de Santa Fé—</b>		<b>São Paulo—</b>		A.
Maria, H. S.	G.	Harrison, W. J.	M.	
<b>BRAZIL—</b>		Hyland, J. F.	M.	
<b>Bahia—</b>		Sheldon, W. J.	M.	
Hawkins, T. S.	A.M.	Williamson, J.	M.	
<b>Maceio—</b>		<b>BRIT. GUIANA—</b>		<b>URUGUAY—</b>
Ambler, F.	M.	Berbice—		Monte Video—
Lovell, D. R.	M.	Parratt, W. H.	M.	Halstead, J. H.
				M.
				<b>VENEZUELA—</b>
				<b>Caracas—</b>
				Almond, H. J.
				M.

## ASIA.

<b>ARABIA—</b>					
<b>Aden—</b>					
Still, W. H.	M.				
<b>BRIT. N. BORNEO—</b>					
Sandakan—	A.M.				
Girvan, W.					
<b>CHINA—</b>					
<b>Hong Kong—</b>					
Appleby, G. W.	M.				
Bailey, W. S.	M.				
Focken, C. F.	M.				
Kinghorn, J. W.	M.				
Kirkwood, J.	M.				
Murphy, E. O.	A.M.				
Orange, J.	M.				
Parlane, W.	M.				
Ramsay, W.	M.				
Woodger, P. B.	A.M.				
<b>Shanghai—</b>					
Blechynden, J.	M.				
Bunt, T.	M.				
Gaston, A. B.	A.M.				
Groundwater, S.	A.M.				
Hearson, H. R.	M.				
Hiller, H. K.	M.				
Morrison, G. J.	M.				
Wood, W. C.	M.				
<b>Tientsin—</b>					
Bourne, T. J.	M.				
Kwang, K. Y.	M.				
Thomson, J. C.	A.M.				
<b>INDIA—</b>					
<b>Ahmedabad—</b>					
Davison, J. W.	M.				
<b>Allahabad—</b>					
Wasdell, A.	A.M.				
<b>Amritsar—</b>					
Ganga Ram, R. B.	M.				
<b>Asansol—</b>					
Radley, B. V.	A.M.				
<b>Bangalore—</b>					
Lorbinière, Capt. A. C. J. de	M.				
<b>Baroda—</b>					
Patel, R. M.	A.M.				
<b>Bombay—</b>					
Ashby, G.	M.				
Burnside, B. W.	A.M.				
Dadabhoj, C.	M.				
Dadina, H. M.	A.M.				
Ditchburn, R.	M.				
Drewett, T.	M.				
Dunlop, J.	M.				
Elsworth, E. H.	M.				
English, T. M.	M.				
Forbes, D. M.	M.				
Gawthorne, W. A.	A.M.				
Hammatt, J. G.	M.				
Hepworth, J. W.	M.				
Hudson, W.	M.				
Jeejeebhoy, P. B.	M.				
Knowles, J.	M.				
<b>Bombay (cont.)—</b>					
Lewis, H. W.	M.				
Longworth, D.	M.				
Macbeth, J. B. K.	M.				
Middleton, R. T.	M.				
Mitchell, J. F. B.	A.M.				
Murray, A. J.	M.				
Shroff, A. B.	M.				
Thompson, E. W.	G.				
Walke, C. N. E.	M.				
Webb, R. G.	M.				
Weightman, W. J.	M.				
Whittell, A. L.	M.				
<b>Borsad—</b>					
Patel, M. B.	A.M.				
<b>Calcutta—</b>					
Abbott, A. H.	M.				
Dryden, A.	M.				
Forbes, W. G. L. S.	M.				
George, J. M.	A.M.				
Harrison, F.	M.				
Harwood, R. H.	A.M.				
James, A. W.	M.				
McGlashan, W.	M.				
McPherson, S.	M.				
Middleton, H. H.	A.M.				
Morris, C.	M.				
Moylan, W. M.	A.M.				
Munn, J. A.	A.M.				
Orr, C. R.	M.				
Pulman, T. C.	M.				
Rochat, H. L.	A.M.				
Ruffle, F. F.	A.M.				
Scott, R.	M.				
Stone, E. H.	M.				
<b>Cawnpore—</b>					
Anderson, A. S.	M.				
Goulstone, E. E.	A.M.				
Thomson, H.	A.M.				
<b>Chittagong—</b>					
Hawkins, R. S.	M.				
<b>Colombo—</b>					
Bradley, G. T.	A.M.				
Garratt, J. H.	A.M.				
Hutson, C. A.	M.				
Hyde, G. H.	M.				
Tarver, H. H.	G.				
Thomas, O. P.	A.M.				
<b>Cuttack—</b>					
Hughes, R. M.	M.				
<b>Dibrugarh—</b>					
Locket, A.	A.M.				
<b>Fatehgarh—</b>					
Townsend, Major C. C.	M.				
<b>French Rocks—</b>					
Molloy, H. J.	M.				
<b>Gwallor—</b>					
Baker, W. H.	M.				
<b>Howrah—</b>					
Browne, T. B.	M.				
Shirtliff, F.	A.M.				
Wicks, H.	M.				
<b>Insein—</b>					
Cardew, C. E.	M.				
Johnson, L. P.	M.				
<b>Jamalpur—</b>					
Eborall, C. W.	M.				
Rendell, A. W.	M.				
Tomes, W. J.	A.M.				
<b>Jhansi—</b>					
Wrench, J. M.	M.				
<b>Kanchrapara—</b>					
Jones, G. E.	M.				
<b>Karachi—</b>					
Cosser, T.	M.				
Davidson, J. M.	A.M.				
Herman, B. R.	M.				
Markwick, A. E.	M.				
Moore, J.	M.				
<b>Lahore—</b>					
Atkinson, A.	M.				
Winnill, G.	M.				
Yates, L. E. H.	M.				
<b>Lucknow—</b>					
Keatinge, S. A. J.	A.M.				
<b>Madras—</b>					
Bamford, R. G.	M.				
Bell, Major C. T.	M.				
Chatterton, Prof. A.	M.				
Emery, J. I.	G.				
Harris, H. E.	A.M.				
Loane, S. J.	M.				
Mansfield, A.	A.M.				
Mansfield, F.	G.				
Mansfield, O.	G.				
Mansfield, W.	A.M.				
Phipps, C. E.	M.				
Pillai, V. P. D.	M.				
Ravenhill, W. A.	A.M.				
Spring, F. J. E.	M.				
<b>Mhow—</b>					
Addis, F. H.	G.				
<b>Morvi—</b>					
Burke, M. J.	M.				
<b>Mozufferpore—</b>					
Williams, W. H.	M.				
<b>Mussoorie—</b>					
Campbell, A.	M.				
<b>Negapatam—</b>					
Bruce, G. S.	M.				
Forbes, G. C.	A.M.				
<b>Rangoon—</b>					
Bateman, H.	M.				
Duncan, N.	M.				
McGeorge, J.	A.M.				
Paterson, W. S.	M.				
<b>Rawal Pindi—</b>					
Hitchcock, C.	M.				
<b>Roorkee—</b>					
Souter-Robertson, D. M.					
<b>Rosa—</b>					
Hudengue, C. B.	A.M.				

<b>Silehar—</b>		<b>Osaka—</b>		<b>Soerabaya—</b>	
Ede, F. J.	M.	Arauwa, S.	M.	Campbell, J.	M.
<b>Simla—</b>		Atsumi, S.	M.	Powell, B. N.	A.M.
Mahon, Major R. H.	M.	Kikuchi, K.	M.	Slight, W. H.	M.
<b>Sitarampur—</b>		Takatsuki, N.	A.M.		
Higby, R. G.	M.	Takimura, T.	A.M.		
<b>Sylhet—</b>		<b>Tokyo—</b>		<b>SIAM—</b>	
Monckton, C. J.	A.M.	Brindley, H. S. B.	A.M.	<b>Bangkok—</b>	
<b>Tezapore—</b>		Dan, T.	M.	Mackay, J.	M.
Hadley, W. P. H.	A.M.	Fujii, T.	M.		
<b>Toungoo—</b>		Hall, W. S.	M.	<b>STRAITS STLMTS.—</b>	
Simpson, J. T.	M.	Hiraoka, H.	M.	<b>Penang—</b>	
<b>Trichinopoly—</b>		Mac nab, A. F.	M.	Dick, J. N.	M.
Muggeridge, H. C.	G.	Mano, Prof. B.	M.	Hamilton, R.	M.
<b>Umballa—</b>		Miyabara, J.	M.	Young, R.	M.
Jones, F. R.	M.	Nakagawa, G.	A.M.	<b>Singapore—</b>	
<b>East Coast Rly.—</b>		Shin, T.	M.	Coveney, W. C.	M.
Riekie, J.	M.	West, Prof. C. D.	M.	Hancock, S.	M.
<b>JAPAN—</b>		White, A. F.	M.	Macbean, J. J.	M.
<b>Kobe—</b>		<b>Yokohama—</b>		Millar, J.	M.
Caswell, S. J.	M.	Münster, B. A.	M.	Rowe, A.	M.
Trevithick, R. F.	M.	<b>JAVA—</b>		Webster, W.	M.
<b>Nagasaki—</b>		<b>Batavia—</b>		<b>Taiping—</b>	
Ito, K.	A.M.	Bennett, J. W.	M.	Bratt, E. H. F.	M.
		<b>Samarang—</b>		Carter, S. A.	A.M.
		Ashley, T. J.	M.	<b>TURKEY-IN-ASIA—</b>	
				<b>Smyrna—</b>	
				Issigonis, G. D.	A.M.

## AUSTRALASIA.

### NEW SOUTH WALES—

<b>Granville—</b>	
Clarkson, E. J.	M.
Irons, T.	M.
<b>Sydney—</b>	
Ahrbecker, H. C. V.	M.
Brewster, W. S.	M.
Brown, H.	M.
Brunton, P. G.	M.
Christie, A.	M.
Conyers, S. W.	M.
Crawford, W. W.	M.
Cruickshank, W. D.	M.
Cullen, P. J.	M.
Cutler, A. E.	M.
Davis, J.	M.
Fenwick, J.	M.
Frankl, J. P.	M.
German, W. H.	M.
Grimshaw, J. W.	M.
Hodgson, G. H.	A.M.
Houghton, T. H.	M.
How, W. F.	M.
Howarth, A. M.	M.
Kidd, H.	M.
Massey, G.	M.
McCredie, A. L.	M.
Noakes, W. M.	M.
Schloesser, R.	A.M.
Selfe, N.	M.
Shand, J.	M.
Shaw, P. C. W.	M.
Sinclair, R.	M.
Thow, W.	M.

### QUEENSLAND—

<b>Brisbane—</b>	
Goldsmith, A. J.	M.
Griffiths, J. A.	M.
Nisbet, W. H.	M.
Nutt, G. B.	M.
<b>Charters Towers—</b>	
Carthew-Wright, W.	G.
<b>Maryborough—</b>	
Wilson, H.	M.
<b>Mount Morgan—</b>	
Hirst, J.	M.
<b>S. AUSTRALIA—</b>	
<b>Adelaide—</b>	
Roberts, T.	M.
Scarle, G. N.	G.
<b>TASMANIA—</b>	
<b>Hobart—</b>	
Ross, E. S.	A.M.
<b>Kelly Basin—</b>	
Edleston, A. E.	A.M.
<b>Launceston—</b>	
Deeble, W. R.	M.
<b>VICTORIA—</b>	
<b>Ballarat—</b>	
Kerr, A. E. C.	M.
<b>Melbourne—</b>	
Conyers, W.	M.

### Melbourne (cont.)—

Deakin, B. W.	M.
Mais, H. C.	M.
Pearce, T.	M.
Pinder, C. R.	M.
Shepherd, R. L.	M.
Swinburne, G.	M.
Wood, S. P.	M.

### W. AUSTRALIA—

<b>Albany—</b>	
Hemingway, A.	A.M.
<b>Fremantle—</b>	
Akroyd-Stuart, H.	M.
Denny, J.	M.
Quirk, W. M. H.	M.
Williams, H. W.	M.
<b>Kalgoorlie—</b>	
Cruickshank, G. S.	A.M.
Walkeden, G. H.	M.

### Perth—

Mathews, C. J.	M.
McDonald, J. A.	M.

### Midland Railway—

Moon, E. R.	M.
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### NEW ZEALAND—

<b>Auckland—</b>	
Roche, F. J.	M.
<b>Christchurch—</b>	
Scott, Prof. R. J.	M.
<b>Wellington—</b>	
Ferguson, W.	M.

## EUROPE.

<b>AUSTRIA—</b>						
Mähren—						
Dare, A. N.	A.M.					
Vienna—						
Hardy, J. G.	M.					
Rainforth, W. F.	G.					
<b>BELGIUM—</b>						
Brussels—						
Builly, P.	M.					
Bika, L. J.	M.					
Coppée, E.	M.					
Lacy-Hulbert, C. E.	A.M.					
Oakes, Sir R. L.	M.					
Selby, M.	M.					
<b>Liège—</b>						
Timmermans, F.	M.					
Trenery, W. P.	M.					
<b>DENMARK—</b>						
Velle—						
Knight, A. H.	A.M.					
<b>FINLAND—</b>						
Abo—						
Eager, J. E.	M.					
<b>FRANCE—</b>						
Neuilly-sur-Seine—						
Marié, G.	M.					
<b>Paris—</b>						
Berrier-Fontaine, M.	M.					
Bourdon, F. E.	M.					
Menier, H.	M.					
Molinos, L.	M.					
Roux, P. L.	A.M.					
Sauvage, E.	M.					
Taylor, M.	G.					
<b>Rouen—</b>						
Windsor, E. W.	M.					
<b>St. Denis—</b>						
D'Albert, C.	M.					
<b>St. Ouen—</b>						
Farcot, P.	M.					
<b>GERMANY—</b>						
Berlin—						
Edwards, J.	G.					
Jüngermann, C.	M.					
Grove, D.	M.					
■ Pajeken, J. F.	M.					
Shiba, C.	A.M.					
<b>Düsseldorf—</b>						
Berthiez, C.	M.					
Boeddinghaus, J.	M.					
Taggart, W. S.	M.					
<b>Kalk—</b>						
Mount-Haes, A.	A.M.					
<b>GIBRALTAR—</b>						
Livesey, R. M.	A.M.					
Osburn, G. V.	A.M.					
Williams, W. W.	M.					
<b>GREECE—</b>						
Piraeus—						
Mastrantonis, P.	M.					
<b>HOLLAND—</b>						
Flushing—						
Martin, W. H.	M.					
Van Raalte, J.	M.					
<b>ITALY—</b>						
Milan—						
Nathan, A.	M.					
Rümmele, A.	G.					
<b>MONTE CARLO—</b>						
Kershaw, J.	M.					
<b>PORTUGAL—</b>						
Lisbon—						
Fish, S. R.	M.					
<b>Oporto—</b>						
Ennor, C. J.	M.					
<b>RUSSIA—</b>						
Alexandrov—						
Stutzer, W.	M.					
<b>Baku—</b>						
Beck, J.	A.M.					
Stirling, R.	M.					
<b>Elizabethgrad—</b>						
Davis, F. M.	A.M.					
<b>Lodz—</b>						
Buckley, V. E.	M.					
Ratcliffe, J. T.	M.					
<b>Moscow—</b>						
Dixon, W. F.	M.					
<b>Moscow (cont.)—</b>						
Hopper, A.	M.					
Hopper, J. R.	M.					
Johnson, J. W.	M.					
Urmston, P.	A.M.					
<b>Odessa—</b>						
Platta, J. J.	M.					
<b>SICILY—</b>						
Palermo—						
Schofield, G. A.	M.					
<b>SPAIN—</b>						
Astillero—						
Kensington, J. C.	A.M.					
<b>Bilbao—</b>						
Mendizabal, C.	M.					
Thorburn, W.	M.					
<b>Huelva—</b>						
Bennie, P.	M.					
Connell, W. P.	A.M.					
Halstead, A. F.	M.					
<b>Madrid—</b>						
Aramburn y Silva, F.	M.					
Neville, E. H.	A.					
Phillips, E. G.	A.M.					
Presser, E. C. A.	M.					
<b>SWEDEN—</b>						
Eskilstuna—						
Betts, S.	M.					
<b>Gothenburg—</b>						
Wadham, R.	G.					
<b>Helsingborg</b> -						
Widmark, H. W.	M.					
<b>SWITZERLAND—</b>						
Emishofen—						
Rieter, E. H.	A.M.					
<b>Winterthur—</b>						
Sulzer, J.	M.					
<b>TURKEY—</b>						
Constantinople—						
Ahmed Pasha, Rear-Admiral	M.					
Sirri, M.	A.M.					



## THE INSTITUTION OF MECHANICAL ENGINEERS.

### Memorandum of Association.

AUGUST 1878.

1st. The name of the Association is "THE INSTITUTION OF MECHANICAL ENGINEERS."

2nd. The Registered Office of the Association will be situate in England.

3rd. The objects for which the Association is established are:—

(A.) To promote the science and practice of Mechanical Engineering and all branches of mechanical construction, and to give an impulse to inventions likely to be useful to the Members of the Institution and to the community at large.

(B.) To enable Mechanical Engineers to meet and to correspond, and to facilitate the interchange of ideas respecting improvements in the various branches of mechanical science, and the publication and communication of information on such subjects.

(C.) To acquire and dispose of property for the purposes aforesaid.

(D.) To do all other things incidental or conducive to the attainment of the above objects or any of them.

4th. The income and property of the Association, from whatever source derived, shall be applied solely towards the promotion of the objects of the Association as set forth in this Memorandum of Association, and no portion thereof shall be paid or transferred directly or indirectly, by way of dividend, bonus, or otherwise howsoever, by way of profit to the persons who at any time are or have been Members of the Association, or to any of them, or to any person claiming through any of them : Provided that nothing herein contained shall prevent the payment in good faith of remuneration to any officers or servants of the Association, or to any Member of the Association, or other person, in return for any services rendered to the Association, or prevent the giving of privileges to the Members of the Association in attending the meetings of the Association, or prevent the borrowing of money (under such powers as the Association and the Council thereof may possess) from any Member of the Association, at a rate of interest not greater than five per cent. per annum.

5th. The fourth paragraph of this Memorandum is a condition on which a licence is granted by the Board of Trade to the Association in pursuance of Section 23 of the Companies Act 1867. For the purpose of preventing any evasion of the terms of the said fourth paragraph, the Board of Trade may from time to time, on the application of any Member of the Association, impose further conditions, which shall be duly observed by the Association.

6th. If the Association act in contravention of the fourth paragraph of this Memorandum, or of any such further conditions, the liability of every Member of the Council shall be unlimited ; and the liability of every Member of the Association who has received any such dividend, bonus, or other profit as aforesaid, shall likewise be unlimited.

7th. Every Member of the Association undertakes to contribute to the Assets of the Association in the event of the same being wound up during the time that he is a Member, or within one

year afterwards, for payment of the debts and liabilities of the Association contracted before the time at which he ceases to be a Member, and of the costs, charges, and expenses for winding up the same, and for the adjustment of the rights of the contributors amongst themselves, such amount as may be required not exceeding Five Shillings, or in case of his liability becoming unlimited such other amount as may be required in pursuance of the last preceding paragraph of this Memorandum.

8th. If upon the winding up or dissolution of the Association there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed among the Members of the Association, but shall be given or transferred to some other Institution or Institutions having objects similar to the objects of the Association, to be determined by the Members of the Association at or before the time of dissolution ; or in default thereof, by such Judge of the High Court of Justice as may have or acquire jurisdiction in the matter.

## Articles of Association.

FEBRUARY 1893.

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### INTRODUCTION.

Whereas an Association called "The Institution of Mechanical Engineers" existed from 1847 to 1878 for objects similar to the objects expressed in the Memorandum of Association of the Association (hereinafter called "the Institution") to which these Articles apply;

And whereas the Institution was formed in 1878 for furthering and extending the objects of the former Institution, by a registered Association, under the Companies Acts 1862 and 1867;

And whereas terms used in these Articles are intended to have the same respective meanings as they have when used in those Acts, and words implying the singular number are intended to include the plural number, and *vice versa*;

Now THEREFORE IT IS HEREBY AGREED as follows:—

### CONSTITUTION.

1. For the purpose of registration the number of members of the Institution is unlimited.

#### MEMBERS, ASSOCIATE MEMBERS, GRADUATES, ASSOCIATES, AND HONORARY LIFE MEMBERS.

2. The present Members of the Institution, and such other persons as shall be admitted in accordance with these Articles, and none others, shall be Members of the Institution, and be entered on the register as such.

3. Any person may become a Member of the Institution who shall be qualified and elected as hereinafter mentioned, and shall agree to become such Member, and shall pay the entrance fee and first subscription accordingly.

4. The qualification of Members shall be prescribed by the By-laws from time to time in force, as provided by the Articles.

5. The election of Members shall be conducted as prescribed by the By-laws from time to time in force, as provided by the Articles.

6. In addition to the persons already admitted as Graduates, Associates, and Honorary Life Members respectively, the Institution may admit such persons as may be qualified and elected in that behalf as Associate Members, Graduates, Associates, and Honorary Life Members respectively of the Institution, and may confer upon them such privileges as shall be prescribed by the By-laws from time to time in force, as provided by the Articles: provided that no Associate Member, Graduate, Associate, or Honorary Life Member shall be deemed to be a Member within the meaning of the Articles.

7. The qualification and mode of election of Associate Members, Graduates, Associates, and Honorary Life Members shall be prescribed by the By-laws from time to time in force, as provided by the Articles.

8. The rights and privileges of every Member, Associate Member, Graduate, Associate, or Honorary Life Member shall be personal to himself, and shall not be transferable or transmissible by his own act or by operation of law.

#### ENTRANCE FEES AND SUBSCRIPTIONS.

9. The Entrance Fees and Subscriptions of Members, Associate Members, Graduates, and Associates shall be prescribed by the By-laws from time to time in force, as provided by the Articles.

### EXPULSION.

10. If any Member, Associate Member, Graduate, or Associate shall leave his subscription in arrear for two years, and shall fail to pay such arrears within three months after a written application has been sent to him by the Secretary, his name may be struck off the register by the Council at any time afterwards, and he shall thereupon cease to have any rights as a Member, Associate Member, Graduate, or Associate, but he shall nevertheless continue liable to pay the arrears of subscription due at the time of his name being so struck off: provided always that this regulation shall not be construed to compel the Council to remove any name, if they shall be satisfied the same ought to be retained.

11. The Council may refuse to continue to receive the subscriptions of any person who shall have wilfully acted in contravention of the regulations of the Institution, or who shall in the opinion of the Council have been guilty of such conduct as shall have rendered him unfit to continue to belong to the Institution; and may remove his name from the register, and he shall thereupon cease to be a Member, Associate Member, Graduate, or Associate (as the case may be) of the Institution.

### GENERAL MEETINGS.

12. The General Meetings shall consist of the Ordinary Meetings, the Annual General Meeting, and of Special Meetings as hereinafter defined.

13. The Annual General Meeting shall take place in London in one of the first four months of every year. The Ordinary Meetings shall take place at such times and places as the Council shall determine.

14. A Special Meeting may be convened at any time by the Council, and shall be convened by them whenever a requisition signed by twenty Members or Associate Members of the Institution,

specifying the object of the Meeting, is left with the Secretary. If for fourteen days after the delivery of such requisition a Meeting be not convened in accordance therewith, the Requisitionists or any twenty Members or Associate Members of the Institution may convene a Special Meeting in accordance with the requisition. All Special Meetings shall be held in London.

15. Seven clear days' notice of every Meeting, specifying generally the nature of any special business to be transacted at any Meeting, shall be given to every person on the register of the Institution, except as provided by Article 35, and no other special business shall be transacted at such Meeting; but the non-receipt of such notice shall not invalidate the proceedings of such Meeting. No notice of the business to be transacted (other than such ballot lists as may be requisite in case of elections) shall be required in the absence of special business.

16. Special business shall include all business for transaction at a Special Meeting, and all business for transaction at every other Meeting, with the exception of the reading and confirmation of the Minutes of the previous Meeting, the election of Members, Associate Members, Graduates, and Associates, and the reading and discussion of communications as prescribed by the By-laws, or by any regulations of the Council made in accordance with the By-laws.

#### PROCEEDINGS AT GENERAL MEETINGS.

17. Twenty Members or Associate Members shall constitute a quorum for the purpose of a Meeting other than a Special Meeting. Thirty Members or Associate Members shall constitute a quorum for the purpose of a Special Meeting.

18. If within thirty minutes after the time fixed for holding the Meeting a quorum is not present, the Meeting shall be dissolved, and all matters which might, if a quorum had been present, have been done at a Meeting (other than a Special Meeting) so dissolved, may forthwith be done on behalf of the Meeting by the Council.

19. The President shall be Chairman at every Meeting, and in his absence one of the Vice-Presidents; and in the absence of all Vice-Presidents a Member of Council shall take the chair; and if no Member of Council be present and willing to take the chair, the Meeting shall elect a Chairman.

20. The decision of a General Meeting shall be ascertained by show of hands, unless, after the show of hands, a poll is forthwith demanded; and by a poll, when a poll is thus demanded. The manner of taking a show of hands or a poll shall be in the discretion of the Chairman; and an entry in the Minutes, signed by the Chairman, shall be sufficient evidence of the decision of the General Meeting. Each Member and Associate Member shall have one vote and no more. In case of equality of votes the Chairman shall have a second or casting vote: provided that this Article shall not interfere with the provisions of the By-laws as to election by ballot.

21. The acceptance or rejection of votes by the Chairman shall be conclusive for the purpose of the decision of the matter in respect of which the votes are tendered: provided that the Chairman may review his decision at the same Meeting, if any error be then pointed out to him.

#### BY-LAWS.

22. The By-laws set forth in the schedule to these Articles, and such altered and additional By-laws as shall be substituted or added as hereinafter mentioned, shall regulate all matters by the Articles left to be prescribed by the By-laws, and all matters which consistently with the Articles shall be made the subject of By-laws. Alterations in, and additions to, the By-laws, may be made only by resolution of the Members and Associate Members at an Annual General Meeting, after notice of the proposed alteration or addition has been announced at the previous Ordinary Meeting, and not otherwise.

## COUNCIL.

23. The Council of the Institution shall be chosen from the Members only, and shall consist of one President, six Vice-Presidents, fifteen ordinary Members of Council, and of the Past-Presidents. The President, two Vice-Presidents, and five Members of Council (other than Past-Presidents), shall retire at each Annual General Meeting, but shall be eligible for re-election. The Vice-Presidents and Members of Council to retire each year shall, unless the Council agree among themselves, be chosen from those who have been longest in office, and in cases of equal seniority shall be determined by ballot.

24. The election of a President, Vice-Presidents, and Members of Council, to supply the place of those retiring at the Annual General Meeting, shall be conducted in such manner as shall be prescribed by the By-laws from time to time in force, as provided by the Articles.

25. The Council may supply any casual vacancy in the Council (including any casual vacancy in the office of President) which shall occur between one Annual General Meeting and another; and the President, Vice-Presidents, or Members of Council so appointed by the Council shall retire at the succeeding Annual General Meeting. Vacancies not filled up at any such Meeting shall be deemed to be casual vacancies within the meaning of this Article.

## OFFICERS.

26. The Treasurer, Secretary, and other employés of the Institution shall be appointed and removed in the manner prescribed by the By-laws from time to time in force, as provided by the Articles. Subject to the express provisions of the By-laws, the officers and servants of the Institution shall be appointed and removed by the Council.

27. The powers and duties of the officers of the Institution shall, subject to any express provision in the By-laws, be determined by the Council.

#### POWERS AND PROCEDURE OF COUNCIL.

28. The Council may regulate their own procedure, and delegate any of their powers and discretions to any one or more of their body, and may determine their own quorum: if no other number is prescribed, three members of Council shall form a quorum.

29. The Council shall manage the property, proceedings, and affairs of the Institution, in accordance with the By-laws from time to time in force.

30. The Treasurer may, with the consent of the Council, invest in the name of the Institution any moneys not immediately required for the purposes of the Institution in or upon any of the following investments (that is to say):—

- (a) The Public Funds, or Government Stocks of the United Kingdom, or of any Foreign or Colonial Government guaranteed by the Government of the United Kingdom.
- (b) Real or Leasehold Securities, or in the purchase of real or leasehold properties in Great Britain or Ireland.
- (c) Debentures, Debenture Stock, or Guaranteed or Preference Stock, of any Company incorporated by special Act of Parliament, the ordinary Shareholders whereof shall at the time of such investment be in actual receipt of half-yearly or yearly dividends.
- (d) Stocks, Shares, Debentures, or Debenture Stock of any Railway, Canal, or other Company, the undertaking whereof is leased to any Railway Company at a fixed or fixed minimum rent.

(e) Stocks, Shares, or Debentures of any East Indian Railway or other Company, which shall receive a contribution from Her Majesty's East Indian Government of a fixed annual percentage on their capital, or be guaranteed a fixed annual dividend by the same Government.

(f) The security of rates levied by any corporate body empowered to borrow money on the security of rates, where such borrowing has been duly authorised by Act of Parliament.

31. The Council may, with the authority of a resolution of the Members and Associate Members in General Meeting, borrow moneys for the purposes of the Institution on the security of the property of the Institution, or otherwise at their discretion.

32. No act done by the Council, whether *ultra vires* or not, which shall receive the express or implied sanction of the Members and Associate Members in General Meeting, shall be afterwards impeached by any member of the Institution on any ground whatsoever, but shall be deemed to be an act of the Institution.

#### NOTICES.

33. A notice may be served by the Council upon any Member, Associate Member, Graduate, Associate, or Honorary Life Member, either personally or by sending it through the post in a prepaid letter addressed to him at his registered place of abode.

34. Any notice, if served by post, shall be deemed to have been served at the time when the letter containing the same would be delivered in the ordinary course of the post; and in proving such service it shall be sufficient to prove that the letter containing the notice was properly addressed and put into the post office.

35. No Member, Associate Member, Graduate, Associate, or Honorary Life Member, not having a registered address within the United Kingdom, shall be entitled to any notice; and all proceedings may be had and taken without notice to such member, in the same manner as if he had had due notice.

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## By-laws.

(*Last Revision, February 1894.*)

### MEMBERSHIP.

1. Candidates for admission as Members must be persons not under twenty-five years of age, who, having occupied during a sufficient period a responsible position in connection with the practice or science of Engineering, may be considered by the Council to be qualified for election.

2. Candidates for admission as Associate Members must be persons not under twenty-five years of age, who, being engaged in such work as is connected with the practice or science of Engineering, may be considered by the Council to be qualified for election, though not yet to occupy positions of sufficient responsibility, or otherwise not yet to be eligible, for admission as Members. They may afterwards be transferred at the discretion of the Council to the class of Members.

3. Candidates for admission as Graduates must be persons holding subordinate situations, and not under eighteen years of age. They must furnish evidence of training in the principles as well as in the practice of Engineering. Before attaining the age of twenty-six years, those elected after 1892 must apply for election as Members, Associate Members, or Associates, if they desire to remain connected with the Institution; they may not continue Graduates after attaining the age of twenty-six.

4. Candidates for admission as Associates must be persons not under twenty-five years of age, who from their scientific attainments or position in society may be considered eligible by the Council. They may afterwards be transferred at the discretion of the Council to the class of Associate Members or of Members.

5. The Council shall have the power to nominate as Honorary Life Members persons of eminent scientific acquirements, who in their opinion are eligible for that position.

6. The Members, Associate Members, Graduates, Associates, and Honorary Life Members shall have notice of and the privilege to attend all Meetings; but Members and Associate Members only shall be entitled to vote thereat.

7. The abbreviated distinctive Titles for indicating the connection with the Institution of Members, Associate Members, Graduates, Associates, or Honorary Life Members thereof, shall be the following:—for Members, M. I. Mech. E.; for Associate Members, A. M. I. Mech. E.; for Graduates, G. I. Mech. E.; for Associates, A. I. Mech. E.; for Honorary Life Members, Hon. M. I. Mech. E.

8. Subject to such regulations as the Council may from time to time prescribe, any Member, Associate Member, or Associate may upon application to the Secretary obtain a Certificate of his membership or other connection with the Institution. Every such certificate shall remain the property of, and shall on demand be returned to, the Institution.

#### ENTRANCE FEES AND SUBSCRIPTIONS.

9. Each Member shall pay an Annual Subscription of £3, and on election an Entrance Fee of £2.

10. Each Associate Member shall pay an Annual Subscription of £2 10s., and on election an Entrance Fee of £1. If afterwards transferred by the Council to the class of Members, he shall pay on transference 10s. additional subscription for the current year, and £1 additional entrance fee.

11. Each Graduate shall pay an Annual Subscription of £1 10s., but no Entrance Fee. Any Graduate elected prior to 1893, if transferred by the Council to the class of Associate Members, shall pay on transference £1 additional subscription for the current year, but no additional entrance fee; if transferred direct to the class of Members, he shall pay on transference £1 10s. additional subscription for the current year, and £1 additional entrance fee.

12. Each Associate shall pay an Annual Subscription of £2 10s., and on election an Entrance Fee of £1. If afterwards transferred by the Council to the class of Associate Members, he shall pay on transference no additional subscription or entrance fee. If transferred direct to the class of Members, he shall pay on transference 10s. additional subscription for the current year, and £1 additional entrance fee; except Associates elected prior to 1893, who shall pay no additional entrance fee on transference.

13. All subscriptions shall be payable in advance, and shall become due on the 1st day of January in each year; and the first subscription of Members, Associate Members, Graduates, and Associates, shall date from the 1st day of January in the year of their election.

14. In the case of Members, Associate Members, Graduates, or Associates, elected in the last three months of any year, the first subscription shall cover both the year of election and the succeeding year.

15. Any Member, Associate Member, or Associate, whose subscription is not in arrear, may at any time compound for his subscription for the current and all future years by the payment of Fifty Pounds, if paid in any one of the first five years of his membership. If paid subsequently, the sum of Fifty Pounds shall be reduced by One Pound per annum for every year of membership after five years. All compositions shall be deemed to be capital moneys of the Institution.

16. The Council may at their discretion reduce or remit the annual subscription, or the arrears of annual subscription, of any Member or Associate Member who shall have been a subscribing member of the Institution for twenty years, and shall have become unable to continue the annual subscription provided by these By-laws.

17. No Proceedings or Ballot Lists or Certificates shall be sent to Members, Associate Members, Graduates, or Associates, who are in

arrear with their subscriptions more than twelve months, and whose subscriptions have not been remitted by the Council as hereinbefore provided.

#### ELECTION OF MEMBERS, ASSOCIATE MEMBERS, GRADUATES, AND ASSOCIATES.

18. A recommendation for admission according to Form A or B in the Appendix shall be forwarded to the Secretary, and by him be laid before the next Meeting of the Council. The recommendation must be signed by not less than five Members or Associate Members if the application be for admission as a Member or Associate Member or Associate, and by three Members or Associate Members if it be for a Graduate.

19. All elections shall take place by ballot, four-fifths of the votes given being necessary for election.

20. All applications for admission shall be communicated by the Secretary to the Council for their approval previous to being inserted in the ballot list for election, and the approved ballot list shall be signed by the President and forwarded to the Members and Associate Members. The name of any Candidate approved by the Council for admission as an Associate Member or an Associate shall not be inserted in the ballot list until he has signed the Form C in the Appendix. The ballot list shall specify the name, occupation, and address of the Candidates, and also by whom proposed and seconded. The lists shall be opened only in the presence of the Council on the day of election, by a Committee to be appointed for that purpose.

21. The Elections shall take place at the General Meetings only.

22. When the proposed Candidate is elected, the Secretary shall give him notice thereof according to Form D; but his name shall not be added to the register of the Institution until he shall have paid his Entrance Fee and first Annual Subscription, and signed the Form E in the Appendix.

23. In case of non-election, no mention thereof shall be made in the Minutes, nor any notice given to the unsuccessful Candidate.

24. An Associate Member desirous of being transferred to the class of Members, or an Associate to the class of Associate Members or of Members, shall forward to the Secretary a recommendation according to Form F in the Appendix, signed by not less than five Members or Associate Members, which shall be laid before the next meeting of Council for their approval. On their approval being given, the Secretary shall notify the same to the Candidate according to Form G; but his name shall not be added to the list of Members or Associate Members until he shall have signed the Form H, and shall have paid the additional entrance fee (if any), and the additional subscription (if any) for the current year.

#### ELECTION OF PRESIDENT, VICE-PRESIDENTS, AND MEMBERS OF COUNCIL.

25 Candidates shall be put in nomination at the General Meeting preceding the Annual General Meeting, when the Council are to present a list of their retiring Members who offer themselves for re-election; any Member or Associate Member shall then be entitled to add to the list of Candidates. The ballot list of the proposed names shall be forwarded to the Members and Associate Members. The ballot lists shall be opened only in the presence of the Council on the day of election, by a Committee to be appointed for that purpose.

#### APPOINTMENT AND DUTIES OF OFFICERS.

26. The Treasurer shall be a Banker, and shall hold the uninvested funds of the Institution, except the moneys in the hands of the Secretary for current expenses. He shall be appointed by the Members and Associate Members at a General or Special Meeting, and shall hold office at the pleasure of the Council.

27. The Secretary of the Institution shall be appointed, as and when a vacancy occurs, by the Members and Associate Members at a General or Special Meeting, and shall be removable by the Council upon six months' notice from any day. The Secretary shall give the same notice. The Secretary shall devote the whole of his time to the work of the Institution, and shall not engage in any other business or profession.

28. It shall be the duty of the Secretary, under the direction of the Council, to conduct the correspondence of the Institution ; to attend all meetings of the Institution, and of the Council, and of Committees ; to take minutes of the proceedings of such meetings ; to read the minutes of the preceding meetings, and all communications that he may be ordered to read ; to superintend the publication of such papers as the Council may direct ; to have the charge of the library ; to direct the collection of the subscriptions, and the preparation of the account of expenditure of the funds ; and to present all accounts to the Council for inspection and approval. He shall also engage (subject to the approval of the Council) and be responsible for all persons employed under him, and set them their portions of work and duties. He shall conduct the ordinary business of the Institution, in accordance with the Articles and By-laws and the directions of the President and Council ; and shall refer to the President in any matters of difficulty or importance, requiring immediate decision.

#### MISCELLANEOUS.

29. All Papers shall be submitted to the Council for approval, and after their approval shall be read by the Secretary at the General Meetings, or by the Author with the consent of the Council ; or, if so directed by the Council, shall be printed in the Proceedings without having been read at a General Meeting.

30. All books, drawings, communications, &c., shall be accessible to the members of the Institution at all reasonable times,

31. All communications to the Meetings shall be the property of the Institution, and be published only by the authority of the Council.

32. None of the property of the Institution—books, drawings, &c.—shall be taken out of the premises of the Institution without the consent of the Council.

33. All donations to the Institution shall be enumerated in the Annual Report of the Council presented to the Annual General Meeting.

34. The General Meetings shall be conducted as far as practicable in the following order:—

1st. The Chair to be taken at such hour as the Council may direct from time to time.

2nd. The Minutes of the previous Meeting to be read by the Secretary, and, after being approved as correct, to be signed by the Chairman.

3rd. The Ballot Lists, previously opened by the Council, to be presented to the Meeting, and the new Members, Associate Members, Graduates, and Associates elected to be announced.

4th. Papers approved by the Council to be read by the Secretary, or by the Author with the consent of the Council.

35. Each Member or Associate Member shall have the privilege of introducing one friend to any of the Meetings; but, during such portion of any meeting as may be devoted to any business connected with the management of the Institution, visitors shall be requested by the Chairman to withdraw, if any Member or Associate Member asks that this shall be done.

36. Every Member, Associate Member, Graduate, Associate, or Visitor, shall write his name and residence in a book to be kept for the purpose, on entering each Meeting.

37. The President shall ex officio be member of all Committees of Council.

38. Seven clear days' notice at least shall be given of every meeting of the Council. Such notice shall specify generally the business to be transacted by the meeting. No business involving the expenditure of the funds of the Institution (except by way of payment of current salaries and accounts) shall be transacted at any Council meeting unless specified in the notice convening the meeting.

39. The Council shall present the yearly accounts to the Annual General Meeting, after being audited by a professional accountant, who shall be appointed annually by the Members and Associate Members at a General or a Special Meeting, at a remuneration to be then fixed by the Members and Associate Members.

40. Any member wishing to have a copy of the Papers sent to him for consideration beforehand can do so by sending in his name once in each year to the Secretary; and a copy of all Papers shall then be forwarded to him as early as possible prior to the date of the Meeting at which they are intended to be read.

41. At any Meeting of the Institution any member shall be at liberty to re-open the discussion upon any Paper which has been read or discussed at the preceding Meeting; provided that he signifies his intention to the Secretary at least one month previously to the Meeting, and that the Council decide to include it in the notice of the Meeting as part of the business to be transacted.

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## APPENDIX.

**FORM A.**

Mr. being years of age, and desirous of admission into The Institution of Mechanical Engineers, we, the undersigned proposer and seconder from our personal knowledge, and the three other signers from trustworthy information, propose and recommend him as a proper person to belong to the Institution.

Witness our hands, this day of Members or Associate Members.

**FORM B.**

Mr. \_\_\_\_\_ born on \_\_\_\_\_ being desirous  
of admission into The Institution of Mechanical Engineers, we, the  
undersigned proposer and seconder from our personal knowledge, and  
the other signer or signers from trustworthy information, propose and  
recommend him as a proper person to become a Graduate thereof.

**FORM C.**

If elected an \_\_\_\_\_ of The Institution of Mechanical Engineers,  
I, the undersigned, do hereby engage to ratify my election by signing the  
form of agreement (E) and paying the Entrance Fee and Annual Subscription  
in conformity with the By-laws.

Witness my hand, this \_\_\_\_\_ day of

**FORM D.**

Sir,—I have to inform you that on the \_\_\_\_\_ you  
were elected a \_\_\_\_\_ of The Institution of Mechanical Engineers.  
For the ratification of your election in conformity with the rules, it is  
requisite that the enclosed form be returned to me with your signature, and  
that your Entrance Fee and first Annual Subscription be paid, the amounts  
of which are \_\_\_\_\_ and \_\_\_\_\_ respectively. If these be not received  
within two months from the present date, the election will become void.

I am, Sir, Your obedient servant,  
Secretary.

**FORM E.**

I, the undersigned, being elected a member of The Institution of Mechanical Engineers, do hereby agree that I will be governed by the regulations of the said Institution, as they are now formed or as they may hereafter be altered; that I will advance the objects of the Institution as far as shall be in my power, and will attend the Meetings thereof as often as I conveniently can: provided that, whenever I shall signify in writing to the Secretary that I am desirous of withdrawing from the Institution, I shall (after the payment of any arrears which may be due by me at that period) be free from this obligation.

Witness my hand, this                    day of

**FORM F.**

Mr.                    being                    years of age, and desirous of being transferred into the class of                    of The Institution of Mechanical Engineers, we, the undersigned, from our personal knowledge recommend him as a proper person to be so transferred by the Council.

Witness our hands, this                    day of

Members or Associate Members.

**FORM G.**

Sir,—I have to inform you that the Council have approved of your being transferred to the class of                    of The Institution of Mechanical Engineers. For the ratification of your transference in conformity with the rules, it is requisite that the enclosed form be returned to me with your signature, and that your additional Entrance Fee and additional Annual Subscription for the current year be paid, the amounts of which are and                    respectively. If these be not received within two months from the present date, the transference will become void.

I am, Sir, Your obedient servant,  
Secretary.

**FORM H.**

I, the undersigned, having been transferred to the class of                    of The Institution of Mechanical Engineers, do hereby agree that I will be governed by the regulations of the said Institution, as they now exist, or as they may hereafter be altered; that I will advance the objects of the Institution as far as shall be in my power, and will attend the Meetings thereof as often as I conveniently can: provided that, whenever I shall signify in writing to the Secretary that I am desirous of withdrawing from the Institution, I shall (after the payment of any arrears which may be due by me at that period) be free from this obligation.

Witness my hand, this                    day of







